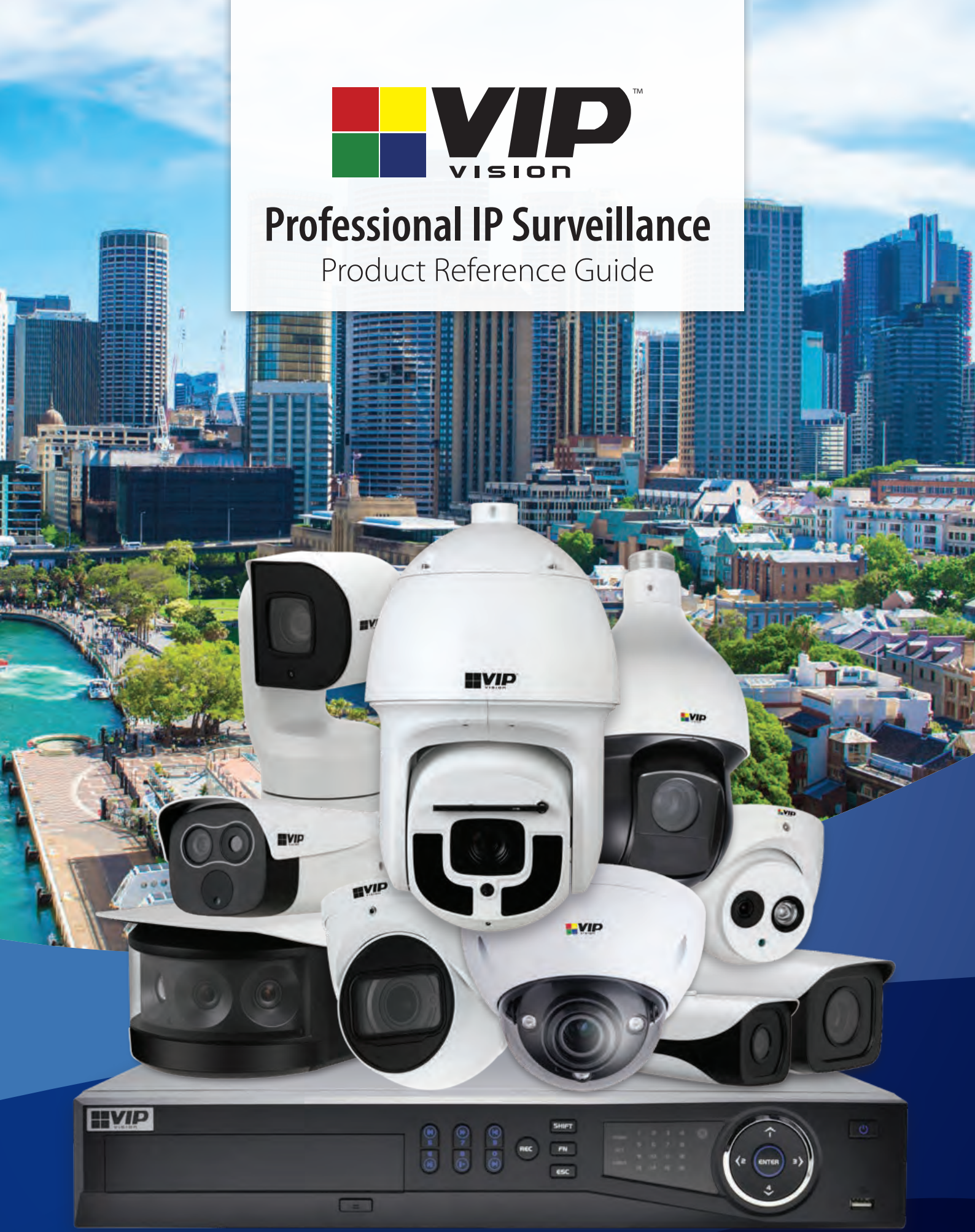
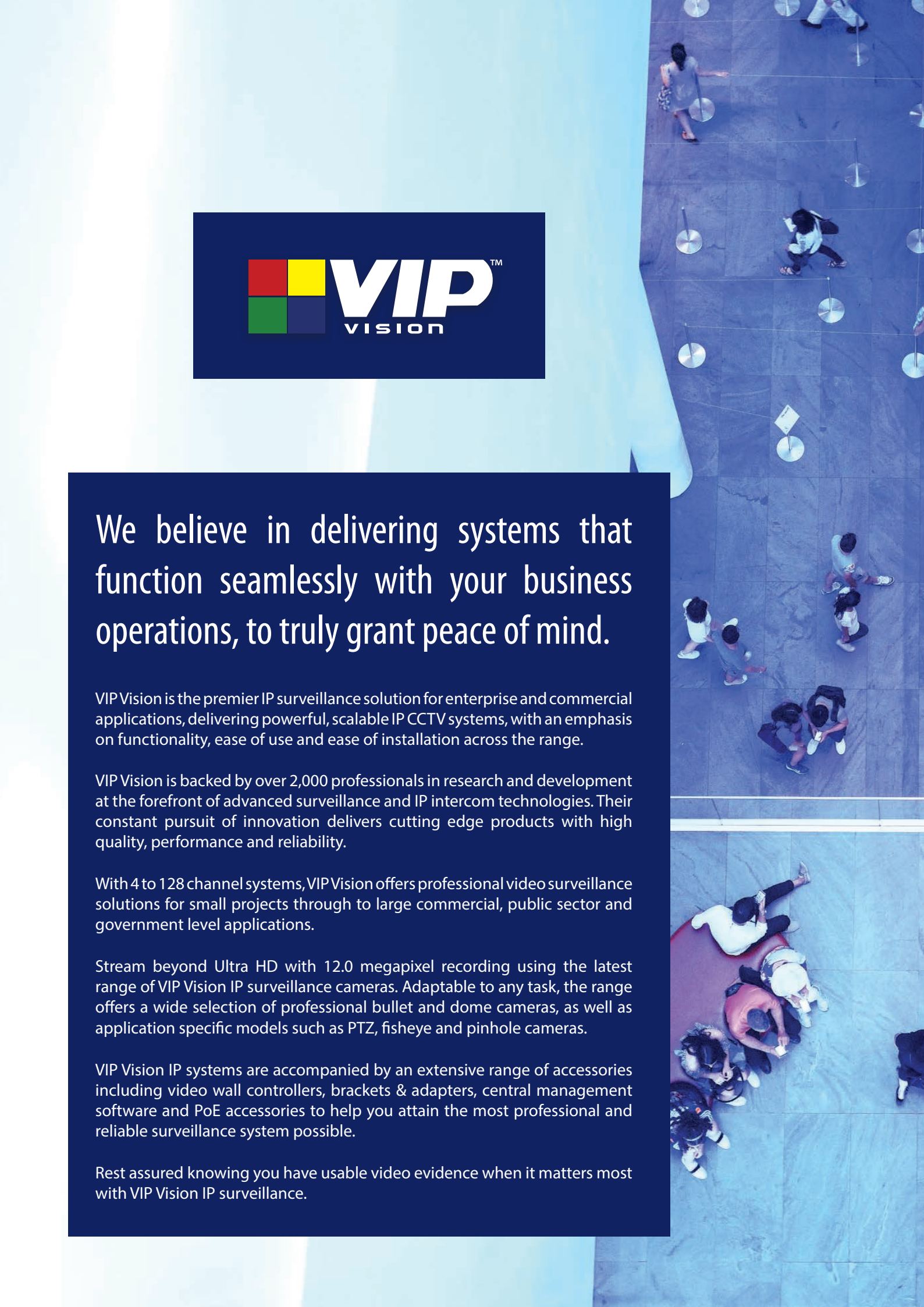
Professional IP Surveillance

Product Reference Guide



Crucial evidence. Always.™



We believe in delivering systems that function seamlessly with your business operations, to truly grant peace of mind.

VIP Vision is the premier IP surveillance solution for enterprise and commercial applications, delivering powerful, scalable IP CCTV systems, with an emphasis on functionality, ease of use and ease of installation across the range.

VIP Vision is backed by over 2,000 professionals in research and development at the forefront of advanced surveillance and IP intercom technologies. Their constant pursuit of innovation delivers cutting edge products with high quality, performance and reliability.

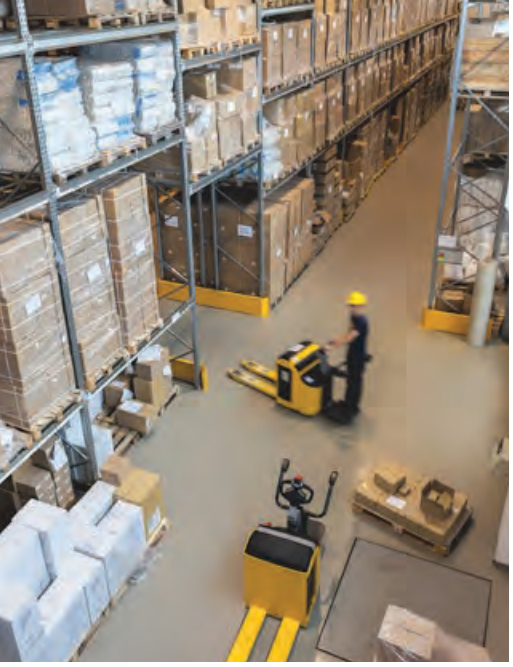
With 4 to 128 channel systems, VIP Vision offers professional video surveillance solutions for small projects through to large commercial, public sector and government level applications.

Stream beyond Ultra HD with 12.0 megapixel recording using the latest range of VIP Vision IP surveillance cameras. Adaptable to any task, the range offers a wide selection of professional bullet and dome cameras, as well as application specific models such as PTZ, fisheye and pinhole cameras.

VIP Vision IP systems are accompanied by an extensive range of accessories including video wall controllers, brackets & adapters, central management software and PoE accessories to help you attain the most professional and reliable surveillance system possible.

Rest assured knowing you have usable video evidence when it matters most with VIP Vision IP surveillance.

VIP
vision



Contents | VIP Vision™ Product Solution Guide

Ultimate Series NVRs
Excellent performance and unparalleled record, backup & storage functionality.

Professional Series NVRs
Uncompromising Ultra HD surveillance with ease of install and user-friendly features.

Mobile Series NVRs
Network recorders purpose built for vehicle surveillance with GPS, 4G & WiFI.

Ultimate Series IP Cameras
The best in surveillance with beyond 4K resolution & extended intelligent functions.

Professional Series IP Cameras
Fixed lens and motorised lens cameras from 2.0MP to 8.0MP (Ultra HD/4K).

Pan-Tilt-Zoom IP Cameras
Take control over your IP surveillance with the VIP Vision r ange of PTZ domes.

Specialist Series IP Cameras
360° fisheye, 180° panoramic and pinhole cameras to transform your CCTV experience.

Traffic Series IP Cameras
Specialised for vehicle surveillance with number plate enhancement and ANPR.

Networking Switches
Manage large surveillance operations across multiple users, locations, and devices

Testers & Accessories
A wide variety of peripherals and testing equipment for your IP surveillance.

Remote View Clients
Desktop and mobile remote view clients so you can stay connected around the clock.

Feature Glossary
Common IP surveillance terms used within this product reference guide.

Ultimate Series
Network Video Recorders

Series Overview

Designed for high performance & high capacity, Ultimate Series NVRs are the premier surveillance solution for enterprise applications.

Purpose-built for large enterprise installations, Ultimate Series NVRs from VIP Vision™ deliver excellent performance, offering unparalleled recording, backup and storage functionality with power and HDD redundancy, for the most demanding CCTV applications.

Record up to 12.0MP
Capture footage at beyond Ultra HD with up to 4000 x 3000 resolution.

Weeks of stored footage
Store weeks of recorded footage with HDD capacity up to 160TB.

High bandwidth capacity
Transmit data at up to 384Mbps for UHD decoding across multiple channels.

Enterprise CCTV systems
High capacity systems for enterprise applications in 32, 64 & 128 channels.

Multiple backup options
Save & backup footage on a local area network or external USB device

Complete system integration
Features inputs/outputs for alarms, audio, RS232, RS485, eSATA & more.

Model Reference

SKU	Description
NVR32ULTNPV2	32 Channel NVR (384Mbps, 8 HDD bays)
NVR64ULT8S	64 Channel NVR (384Mbps, 8 HDD bays)
NVR64ULTNPV2	64 Channel NVR (384Mbps, 16 HDD bays)
NVR128ULTNPV2	128 Channel NVR (384Mbps, 16 HDD bays)

Series Highlights

High-performance processing
with Intel® Core™ Processors

The Ultimate Series features the most powerful recorders VIP Vision has to offer, able to record and decode Ultra HD footage from a large numbers channels at the same time.

- High power Intel® Dual™ & Quad™ Core processors
- Cater to jobs of any size with up to 128 channels
- Up to 384Mbps max. incoming bandwidth
- 1000Mbps Base-X ports for optical fibre interface

The best in video analytics
with intelligent video surveillance functions

The Ultimate Series handles every type of intelligent camera feature that VIP Vision cameras have to offer.

- Advanced IVS including people counting, heat map, tripwire, face detection & more
- Point of sale integration for retail stores

The best in data performance
with RAID data storage configurations

Achieve greater reliability and performance with the RAID system, processing data from two or more hard drives at once with redundancy.

- Up to 160TB of HDD storage with H.265 high efficiency video coding technology
- Hot-swap and hot-spare w/ mini-SAS port

Protect & backup video evidence
with system redundancy & a variety of backup types

Ultimate Series NVRs feature a variety of systems to protect footage from short-term failures & backup older saved footage.

- USB, network, eSATA & internal SATA burner backup
- Automatic Network Replenishment (ANR) - the NVR automatically retrieves footage from cameras' microSD card in the event of network disconnection

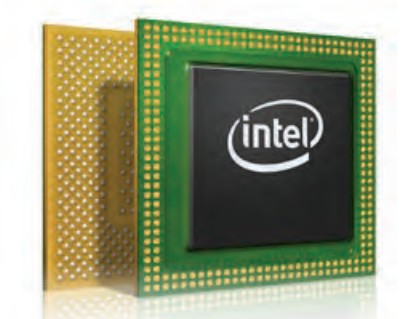
Enterprise performance.

Ultimate Series: Network video recorders available in 64 and 128 channels

Purpose built for large installations, Ultimate Series network video recorders deliver excellent performance and unparalleled record, backup & storage functionality for the most demanding of surveillance applications.

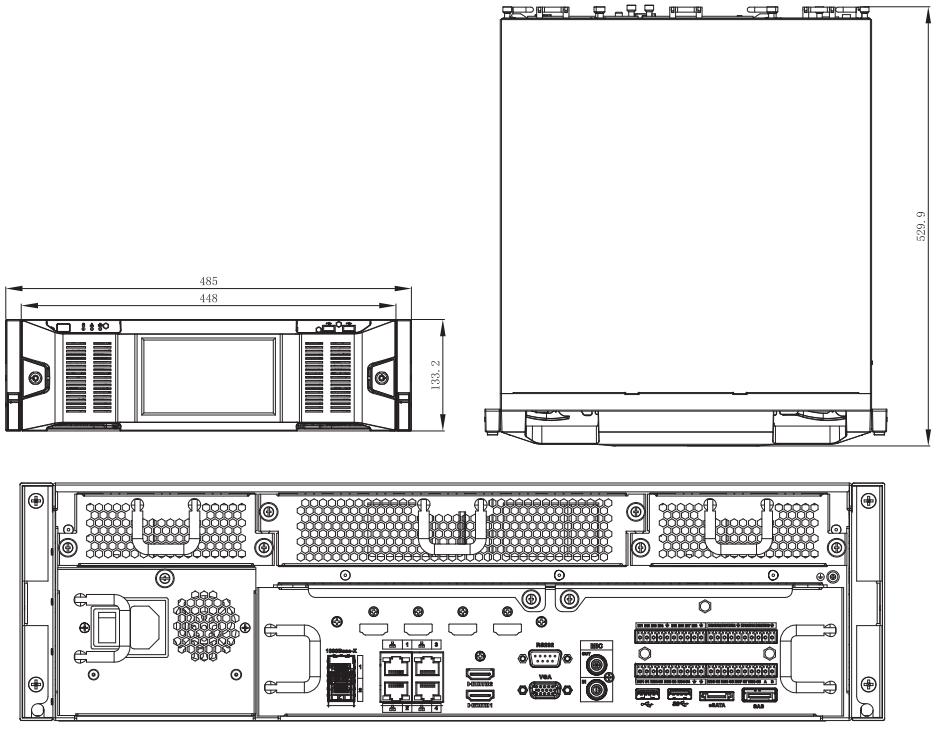
- Record beyond Ultra HD up to 12.0MP (4000 x 3000)
- 384Mbps incoming bandwidth with H.265 support
- 10TB HDD support for up to 160TB footage storage
- 7" HD LCD on-recorder display with 4 channel split
- RAID HDD optimisation; supports global hot-spare
- High performance Intel® quad core processors
- Native Ultra HD live view on 4K monitors via HDMI
- Live view, playback & record via your phone/tablet
- Video analytics including people counting, face detection, tripwire, intrusion, heat map & more

Expand up to 128 IP Cameras



High Performance CPUs

Versatile Storage & Backup

	Specifications	NVR64ULTNPV2	NVR128ULTNPV2
General	Product Image		
	Main Processor	Intel® Quad Core Processors	
	Operating System	Embedded Linux	
	Video Input	64 channels	128 channels
	Two-way Talk	1 channel input, 1 channel output, RCA	
	Interoperability	ONVIF 2.4, CGI conformant	
Display	Video Output	2 x HDMI, 1 x VGA	
	Display Resolution	Configurable from 3840 x 2160 to 1024 x 768	
	Display Split	1/4/8/9/16/25/36/64, Extra display: 1/4/8/9/16	1/4/8/9/16/25/36/64, Extra display: 1/4/8/9/16
	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
Recording	Recording Resolution	Configurable from 12.0MP (4000 x 3000) to CIF (352 x 288)	
	Incoming Bandwidth	384Mbps	
	Video Compression	H.265 / H.264 / MJPEG	
	Bit Rate	16kbps ~ 20Mbps per channel	
	Record Modes	Manual / Schedule (Regular [Continuous], Motion Detection, Alarm) / Stop	
	Record Interval	1~120 min (default: 60 min) / Pre-record: 1~30s / Post-record: 10~300s	
Features	Alarm Input / Output	16 channels input / 8 channels relay output (N.O/N.C)	
	Trigger Events	Recording, PTZ, Tour, Alarm, Video Push, Email, FTP, Snapshot, Buzzer, Screentips	
	Video Detection	Motion Detection, Motion Zones: 396 (22 x 18), Video Loss & Tampering	
	Playback Sync	128Mbps (RAID 5 mode) / 64Mbps (single HDD mode)	
	Search Modes	Time/Date, Alarm, Motion Detection, Exact Search (to the second), Smart Search	
	Backup Modes	USB Device / Network / eSATA Device / Internal SATA burner	
Network	Ethernet	4 x RJ-45 (10/100/1000Mbps), Load Balancing or Independent	
	Power over Ethernet	N/A	
	Network Functions	HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, IP Search, P2P	
	Optical Interface	2 x 1000Mbps Fibre Interface	
	Max. User Access	128 users	
	Remote View	iOS (iPhone, iPad) / Android devices / Windows Phone* (limited functionality)	
Storage	Internal HDD	16 x SATA ports up to 10TB, max. 160TB HDD capacity	
	HDD Modes	Single disk, RAID 0/1/5/10 (Global hot-spare support)	
	USB Interface	4 ports: 1x USB3.0 / 3x USB2.0	
	Auxiliary Inputs	1 x RS232 / 1 x RS485 / 1 x eSATA / 1 x Mini SAS	
Environment	Power Supply	100 ~ 240VAC, 50 ~ 60Hz (Power Redundancy Available)	
	Power Consumption	< 51W (without HDD)	
	Operating Environment	-10 ~ 55°C / 10 ~ 90%RH / 86 ~ 106kpa	
	Dimensions / Rack Units	530 x 485 x 133mm / 3U	
	Weight	18.10kg (without HDD)	
Application	Diagrams		

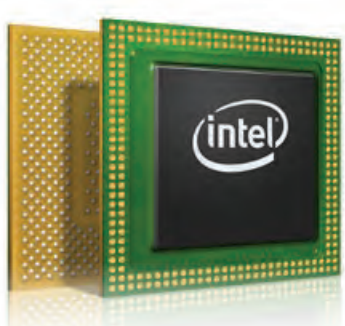
Impressive functionality.

Ultimate Series: Network video recorders available in 32 and 64 channels

Purpose built for large installations, Ultimate Series network video recorders deliver excellent performance and unparalleled record, backup & storage functionality for the most demanding of surveillance applications.

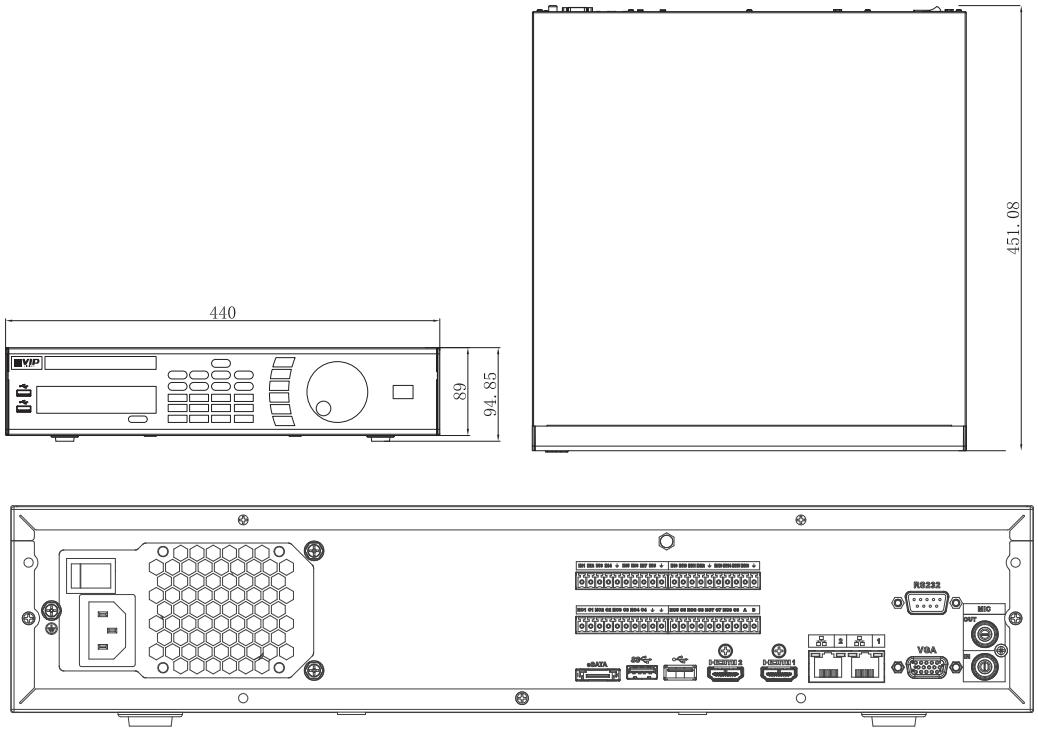
- Record beyond Ultra HD up to 12.0MP (4000 x 3000)
- 384Mbps incoming bandwidth with H.265 support
- High performance Intel® dual/quad core processors
- 10TB HDD support for up to 80TB footage storage
- RAID HDD optimisation; support global hot-spare
- Native Ultra HD live view on 4K monitors via HDMI
- Smart tracking and intelligent video analytics
- Live view, playback & record via your phone/tablet
- Video analytics including people counting, face detection, tripwire, intrusion, heat map & more

Expand up to 64 IP Cameras



High Performance CPUs

Versatile Storage & Backup

	Specifications	NVR32ULTNPV2	NVR64ULT8S
General	Product Image		
	Main Processor	Intel® Dual Core Processors	Intel® Quad Core Processors
	Operating System	Embedded Linux	
	Video Input	32 channels	64 channels
	Two-way Talk	1 channel input, 1 channel output, RCA	
	Interoperability	ONVIF 2.4, CGI conformant	
Display	Video Output	2 x HDMI, 1 x VGA	
	Display Resolution	Configurable from 3840 x 2160 to 1024 x 768	
	Display Split	1/4/8/9/16/25/36, Extra display: 1/4/8/9/16	
	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
Recording	Recording Resolution	Configurable from 12.0MP (4000 x 3000) to CIF (352 x 288)	
	Incoming Bandwidth	384Mbps	
	Video Compression	H.265 / H.264 / MJPEG	
	Bit Rate	16kbps ~ 20Mbps per channel	
	Record Modes	Manual / Schedule (Regular [Continuous], Motion Detection, Alarm) / Stop	
	Record Interval	1~120 min (default: 60 min) / Pre-record: 1~30s / Post-record: 10~300s	
Features	Alarm Input / Output	16 channels input / 8 channels relay output (N.O/N.C)	
	Trigger Events	Recording, PTZ, Tour, Alarm, Video Push, Email, FTP, Snapshot, Buzzer, Screentips	
	Video Detection	Motion Detection, Motion Zones: 396 (22 x 18), Video Loss & Tampering	
	Playback Sync	128Mbps (RAID 5 mode) / 64Mbps (single HDD mode)	
	Search Modes	Time/Date, Alarm, Motion Detection, Exact Search (to the second), Smart Search	
	Backup Modes	USB Device / Network / eSATA Device / Internal SATA burner	
Network	Ethernet	2 x RJ-45 port (10/100/1000Mbps)	
	Power over Ethernet	N/A	
	Network Functions	HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, IP Search, P2P	
	Optical Interface	N/A	
	Max. User Access	128 users	
	Remote View	iOS (iPhone, iPad) / Android devices / Windows Phone* (limited functionality)	
Storage	Internal HDD	8 x SATA ports up to 10TB, max. 80TB HDD capacity	
	HDD Modes	Single disk, RAID 0/1/5/10 (Global hot-spare support)	
	USB Interface	4 ports: 2x USB3.0 / 2x USB2.0	
	Auxiliary Inputs	1 x RS232 / 1 x RS485 / 1 x eSATA	
Environment	Power Supply	100 ~ 240VAC, 50 ~ 60Hz	
	Power Consumption	< 20W (without HDD)	
	Operating Environment	-10 ~ 55°C / 10 ~ 90%RH / 86 ~ 106kpa	
	Dimensions / Rack Units	451 x 440 x 95mm / 2U	
	Weight	9.00kg (without HDD)	
Application	Diagrams		

Professional Series
Network Video Recorders

Series Overview

Perfect for small-medium enterprise, Professional Series NVRs offer uncompromising Ultra HD broadcast-quality surveillance with user-friendly features such as built-in Power over Ethernet and rapid remote view configuration via QR code.

New to the range is ePoE (Extended Power over Ethernet), along with standard PoE and no-PoE recorder models to cover a range of install options.

Model Reference

SKU	Description
NVR4PRO3	4 Channel NVR (200Mbps, 4 x PoE)
NVR8PRO7	8 Channel NVR (320Mbps, 8 x ePoE)
NVR16PRO7	16 Channel NVR (320Mbps, 8 x PoE, 8 x ePoE)
NVR24PRO6	24 Channel NVR (320Mbps, 24 x PoE)
NVR32PRO16P3	32 Channel NVR (320Mbps, 8 x PoE, 8 x ePoE)
NVR16PRO6NP	16 Channel NVR (320Mbps, No PoE)
NVR32PRONP2	16 Channel NVR (320Mbps, No PoE)

Record up to 12.0MP
Capture footage beyond Ultra HD with up to 4000 x 3000 resolution.

Weeks of stored footage
Store weeks of recorded footage with HDD capacity up to 40TB.

Extended Power over Ethernet
Utilise PoE over a long distance, with a maximum range of 800m.

Scalable CCTV systems
Connect any camera across the network, in 4, 8, 16 and 32 channel systems

Multiple backup options
Save & backup footage on a local area network or external USB device

Multiple display outputs
Display HD video output via HDMI & VGA

Series Highlights

User-friendly management
with GUI for live viewing, playback, config & more

The powerful VIP Vision user interface gives the user complete control of their surveillance system, with split screen live view for operations management & smart searching to easily find important moments.

- Split screen display up to 32 cameras at once
- Simultaneous HDMI and VGA video output
- Remote motorised/PTZ camera zoom adjustment

Remote view in a flash
with QR code smartphone setup

Connect your Professional Series NVR to your smartphone in an instant with easy setup via QR code.

- Simply scan to connect your phone
- Live view, playback, PTZ & more
- iOS & Android devices supported

Long distance installs made easy
with Extended Power over Ethernet (ePoE)

Setting up IP surveillance systems across large areas is easier than ever with ePoE, allowing for power and data over Ethernet cable at up to 800m.

- Transmit power & data at a maximum distance of 800m (13W, 10Mbps) / 300m (25.5W, 100Mbps)
- Standard PoE, ePoE and non-PoE recorders available

Secure your video evidence
with multiple footage backup options

With USB and network backup support across the range, as well as eSATA & internal SATA burners for select models, you can always make sure that evidence doesn't get lost.

- Export footage video evidence onto USB device
- eSATA storage support for external HDD backup
- Connect to local network for automated backups

Serious jobs made simple.

Professional Series: PoE NVRs available in 4, 8, 16, 24 and 32 channels

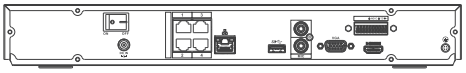
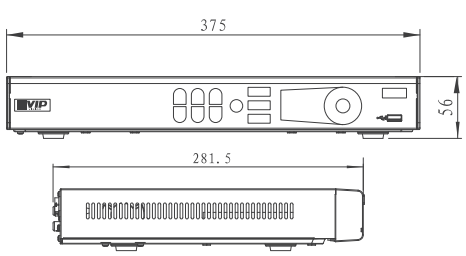
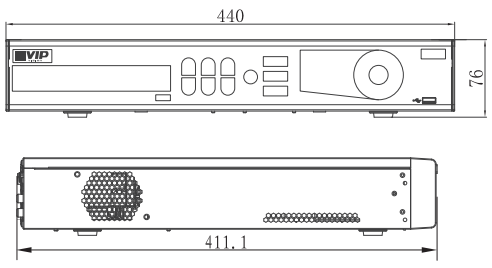
VIP Vision™ Professional Series NVRs offer Ultra HD broadcast-quality image performance with built-in Power over Ethernet for fast installations, plus ePoE for select models to make long-distance camera installs simpler than ever.

- Record beyond Ultra HD up to 12.0MP (4000 x 3000)
- Up to 320Mbps incoming bandwidth, H.265+ support
- 10TB HDD support for up to 40TB footage storage
- Built-in PoE switches for easy install across the range
- ePoE ports for PoE at up to 800m *(8/16/32CH only)*
- H.265 high efficiency video compression technology
- Native Ultra HD live view on 4K monitors via HDMI
- Live view, playback & record via your phone/tablet
- Remote view in seconds with setup via QR code
- Backup footage via network, USB or SATA devices

Ultra HD Recording & Live View

Extended PoE (ePoE) up to 800m

Comprehensive Remote View

	Specifications	4 Channel PoE NVR	8 Channel ePoE NVR	16 Channel ePoE NVR	24 Channel PoE NVR	32 Channel ePoE NVR
Product	Product Image					
	Ordering Information	**NVR4PRO3**: 4 Channel (4 x PoE)	**NVR8PRO7**: 8 Channel (8 x ePoE)	**NVR16PRO7**: 16 Channel (8 x ePoE, 8 x PoE)	**NVR24PRO6**: 24 Channel (16 x PoE)	**NVR32PRO16P3**: 32 Channel (8 x PoE, 8 x ePoE)
General	Main Processor	Quad-core embedded processor				
	Operating System	Embedded Linux				
	Video Input	4 channels	8 channels	16 channels	24 channels	32 channels
	Two-way Talk	1 channel input, 1 channel output, RCA	1 channel input, 1 channel output, RCA	1 channel input, 2 channel output, RCA	1 channel input, 1 channel output, RCA	1 channel input, 2 channel output, RCA
	Interoperability	ONVIF 2.4, SDK, CGI conformant				
Display	Video Output	1 x HDMI, 1 x VGA	1 x HDMI, 1 x VGA	2 x HDMI, 2 x VGA	2 x HDMI, 1 x VGA	2 x HDMI, 2 x VGA
	Display Resolution	Configurable from 3840 x 2160 to 1024 x 768				
	Display Split	1/4	1/4/8/9	1/4/8/9/16	1/4/8/9/16/25	1/4/8/9/16/25/36
	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording				
Recording	Recording Resolution	Configurable from 8.0MP (3840 x 2160) to CIF (352 x 288)		Configurable from 12.0MP (4000 x 3000) to CIF (352 x 288)		
	Incoming Bandwidth	200Mbps	320Mbps	320Mbps	320Mbps	320Mbps
	Video Compression	H.265 / H.264	H.265+ / H.265 / H.264+ / H.264	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265 / H.264 / MJPEG /MPEG4	H.265+ / H.265 / H.264+ / H.264 / MJPEG
	Bit Rate	16kbps ~ 20Mbps per channel				
	Record Modes	Manual / Schedule (Regular [Continuous], Motion Detection, Alarm) / Stop				
	Record Interval	1~120 min (default: 60 min) / Pre-record: 1~30s / Post-record: 10~300s				
Features	Alarm Input / Output	4 channels input / 2 channels relay output (N.O/N.C)		16 channels input / 6 channels relay output (N.O/N.C)		
	Trigger Events	Recording, PTZ, Tour, Alarm, Video Push, Email, FTP, Snapshot, Buzzer, Screentips				
	Video Detection	Motion Detection, Motion Zones: 396 (22 x 18), Video Loss & Tampering				
	Playback Sync	1/4	1/4/9	1/4/9/16	1/4/9/16	1/4/9/16
	Search Modes	Time/Date, Alarm, Motion Detection, Exact Search (to the second), Smart Search				
	Backup Modes	USB Device / Network		USB Device / Network / eSATA Device		
Network	Ethernet	1 x RJ-45 port (10/100/1000Mbps)				
	Power over Ethernet	4 ports (IEEE802.3at/af)	8 ports (IEEE802.3at/af) ePoE & EoC support (All ports)	16 ports (IEEE802.3at/af) ePoE & EoC support (Ports 1-8)	24 ports (IEEE802.3at/af)	16 ports (IEEE802.3at/af) ePoE & EoC support (Ports 1-8)
	ePoE Range	N/A	300m (100Mbps, 25.5W) 800m (10Mbps, 13W)	300m (100Mbps, 25.5W) 800m (10Mbps, 13W)	N/A	300m (100Mbps, 25.5W) 800m (10Mbps, 13W)
	Network Functions	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search, P2P				
	Optical Interface	N/A				
	Max. User Access	128 users				
	Remote View	iOS (iPhone, iPad) / Android devices / Windows Phone* (limited functionality)				
Storage	Internal HDD	2 x SATA ports up to 10TB, max. 20TB HDD capacity		4 x SATA ports up to 10TB, max. 40TB HDD capacity		
	HDD Modes	Single (no RAID compatibility)				
	USB Interface	2 ports: Rear USB3.0 / Front USB2.0		3 ports: Rear USB3.0 / Front USB2.0		
	Auxiliary Inputs	1 x RS232 / 1 x RS485		1 x RS232 / 1 x RS485 / 1 x eSATA		
Environment	Power Supply	48VDC / 2A	100 ~ 240VAC, 50 ~ 60Hz			
	Power Consumption	< 9W (without HDD) / PoE: 25.5W per port, 130W total	< 15.2W (without HDD) / PoE: 25.5W per port, 130W total	< 17.5W (without HDD) / PoE: 25.5W per port, 150W total		
	Operating Environment	-10 ~ 55°C / 10 ~ 90%RH / 86 ~ 106kpa				
	Dimensions / Rack Units	375 x 282 x 56mm / 1U	375 x 327 x 53mm / 1U	440 x 411 x 76mm / 1.5U		
	Weight	1.60kg (without HDD)	4.00kg (without HDD)	4.65kg (without HDD)		
Application						
	Diagrams					
		Above: NVR4PRO3		Above: NVR16PRO7		

Large scale surveillance.

Professional Series: Non-PoE NVRs available in 16 and 32 channels

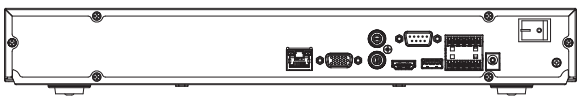
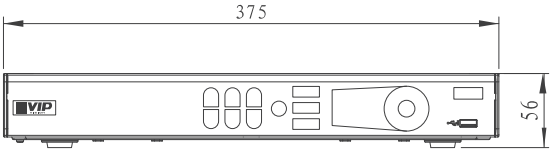
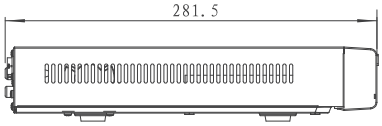
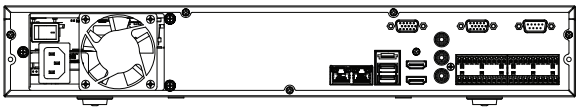
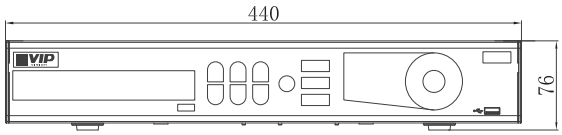
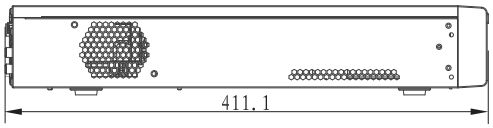
VIP Vision™ Professional Series network video recorders offer Ultra HD broadcast-quality image performance at up to 32 channels, making them ideal for building large systems with cameras connected via external switches.

- Record beyond Ultra HD up to 12.0MP (4000 x 3000)
- Up to 320Mbps incoming bandwidth; H.265 support
- 10TB HDD support for up to 40TB footage storage
- Remote view in seconds with setup via QR code
- H.265 high efficiency video compression technology
- Native Ultra HD live view on 4K monitors via HDMI
- Backup footage via network, USB or SATA devices
- Live view, playback & record via your phone/tablet

Ultra HD Recording & Live View

External Network Installations

Comprehensive Remote View

	Specifications	16 Channel NVR	32 Channel NVR
Product	Product Image		
	Ordering Information	**NVR16PRO6NP:** 16 Channel	**NVR32PRONP2:** 32 Channel
General	Main Processor	Quad-core embedded processor	
	Operating System	Embedded Linux	
	Video Input	16 channels	32 channels
	Two-way Talk	1 channel input, 1 channel output, RCA	2 channel input, 2 channel output, RCA
	Interoperability	ONVIF 2.4, SDK, CGI conformant	
Display	Video Output	1 x HDMI, 1 x VGA	2 x HDMI, 2 x VGA
	Display Resolution	Configurable from 3840 x 2160 to 1024 x 768	
	Display Split	1/4/8/9/16	1/4/8/9/16/25/36
	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
Recording	Recording Resolution	Configurable from 12.0MP (4000 x 3000) to CIF (352 x 288)	
	Incoming Bandwidth	320Mbps	
	Video Compression	H.265+ / H.265 / H.264+ / H.264 / MJPEG	
	Bit Rate	16kbps ~ 20Mbps per channel	
	Record Modes	Manual / Schedule (Regular [Continuous], Motion Detection, Alarm) / Stop	
	Record Interval	1~120 min (default: 60 min) / Pre-record: 1~30s / Post-record: 10~300s	
Features	Alarm Input / Output	4 channels input / 2 channels relay output (N.O/N.C)	16 channels input / 6 channels relay output (N.O/N.C)
	Trigger Events	Recording, PTZ, Tour, Alarm, Video Push, Email, FTP, Snapshot, Buzzer, Screentips	
	Video Detection	Motion Detection, Motion Zones: 396 (22 x 18), Video Loss & Tampering	
	Playback Sync	1/4/9/16	
	Search Modes	Time/Date, Alarm, Motion Detection, Exact Search (to the second), Smart Search	
	Backup Modes	USB Device / Network	USB Device / Network / eSATA Device / Internal SATA burner
Network	Ethernet	1 x RJ-45 port (10/100/1000Mbps)	2 x RJ-45 port (10/100/1000Mbps), Independant or Joint Working
	Power over Ethernet	N/A	
	Network Functions	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, IP Search, Easy4IP	
	Optical Interface	N/A	
	Max. User Access	128 users	
	Remote View	iOS (iPhone, iPad) / Android devices / Windows Phone* (limited functionality)	
Storage	Internal HDD	2 x SATA ports up to 10TB, max. 20TB HDD capacity	4 x SATA ports up to 10TB, max. 40TB HDD capacity
	HDD Modes	Single (no RAID compatibility)	
	USB Interface	3 ports: 2 x Rear USB3.0 / 1 x Front USB2.0	
	Auxiliary Inputs	1 x RS232 / 1 x RS485	1 x RS232 / 1 x RS485 / 1 x eSATA
Environment	Power Supply	12VDC / 4A	100 ~ 240VAC, 50 ~ 60Hz
	Power Consumption	<9.5W (without HDD)	<16.7W (without HDD)
	Operating Environment	-10 ~ 55°C / 10 ~ 90%RH / 86 ~ 106kpa	
	Dimensions / Rack Units	375 x 282 x 52mm / 1U	440 x 411 x 76mm / 1.5U
	Weight	1.6kg (without HDD)	4.30kg (without HDD)
Application	Diagrams	  	  

Mobile Series
Network Video Recorders

Series Overview

Mobile Series NVRs offer purpose built vehicle surveillance for fleet vehicles across a wide variety of applications. They are ideal in freight & logistics, public transportation, law enforcement, taxi & rideshare services, and more.

Record precision GPS data, remote view via 4G/WiFi, and integrate almost any of the VIP Vision camera range in vehicles with Mobile Series NVRs.

Model Reference

SKU	Description
MNVR-GPS4	4 Channel Mobile NVR (GPS)
MNVR-GPS4GW	4 Channel Mobile NVR (GPS, 4G & WiFi)
MNVR-GPS8GW	8 Channel Mobile NVR (GPS, 4G & WiFi)

Record up to Full HD 1080p
Mobile footage captured in full HD resolution 1920 x 1080

Robust chassis & HDD caddy
2 DIN mobile-ready chassis with 2 x 2.5" SATA slots and SD card slots

Mobile Power over Ethernet
Ease of installation and minimal cable runs with PoE mobile NVRs

Utilise the VIP Vision range
Pick from the large VIP Vision camera range to best suit your vehicle

Multiple backup options
Backup direct to USB drive; via HDD caddy using a PC; or via WiFi

Display to in-vehicle monitors
Common video output options via HDMI and VGA for in-vehicle CCTV display

Series Highlights

Purpose built mobile surveillance
with robust construction and vibration dampening

Ensure reliable surveillance operation & storage with Mobile Series NVRs. Each feature a robust chassis for continued performance in challenging environments encountered by your vehicle.

- Tough extruded aluminium, 2 DIN size chassis
- Vibration dampening HDD mount for reliability
- Lockable HDD caddy, prevents footage theft

24/7 vehicle GPS tracking
with high precision GPS module

Each Mobile Series NVR features a built-in GPS module so you can include important GPS data as part of your video records.

- Search playback footage by timestamp & location using Google Maps® overlay
- Support video evidence with GPS data

Integrate CCTV into your vehicle
with Power over Ethernet and multiple I/O support

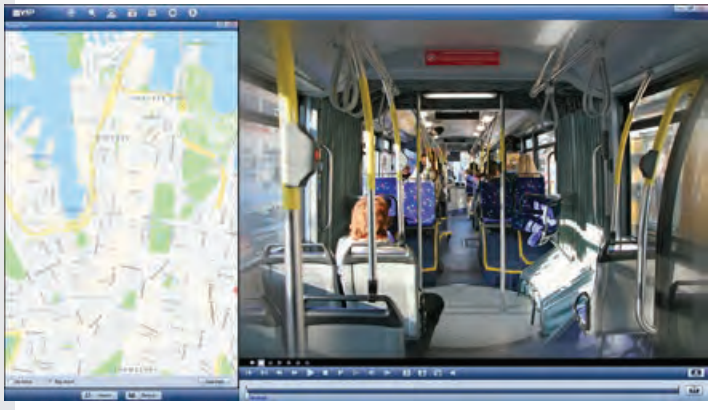
Power & connect VIP Vision IP cameras to your NVR quickly with built in PoE. Expand your monitoring to include vehicle systems with CAN bus support & more.

- 4 port & 8 port Power over Ethernet mobile NVRs
- CAN bus, RS232, RS485, g-sensor, alarm input, relay output for integration to fuel sensor, alarm, etc.

Connect remotely to your vehicle
with optional 4G and WiFi connectivity modules

Manage larger fleets remotely with 4G and WiFi connectivity. Monitor cabin & cargo, confirm driver locations, identify delays, & perform time critical applications all in real-time.

- Live view and playback vehicle footage via 4G mobile Internet and WiFi
- Backup via WiFi when returned to base



Full HD vehicle surveillance.

Mobile NVR Series: PoE NVRs with GPS & optional 4G / WiFi, in 4 & 8 channels

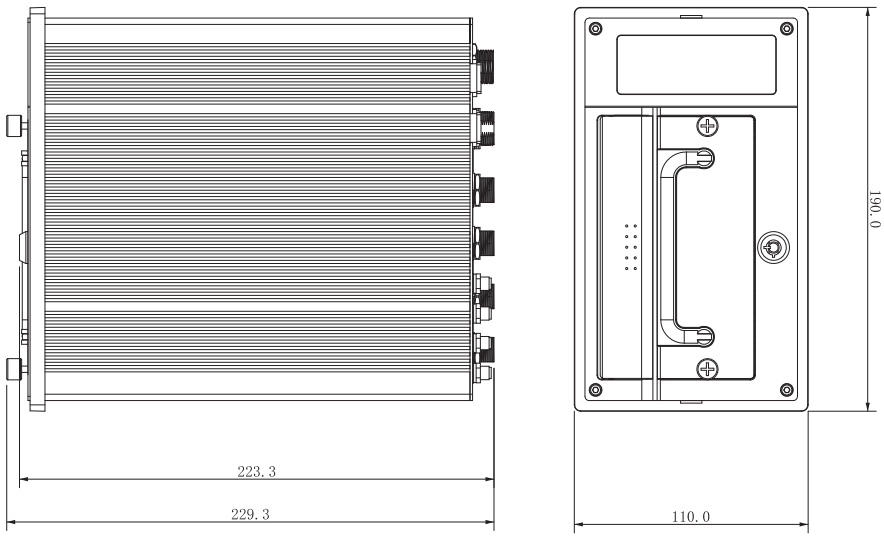
Mobile Series NVRs offer Full HD recording, GPS overlay and Power over Ethernet in a robust metal chassis. They are ideal for large vehicle surveillance and are available with optional 4G and WiFi for remote viewing capabilities.

- Records up to Full HD 1080p (1920 x 1080)
- Combines video footage with GPS tracking overlay
- Lockable HDD & SIM slot for secure footage retrieval
- 2.5" SATA bays for HDD, SD storage up to 128GB
- Built-in Power over Ethernet (PoE) ports
- Robust housing; vibration-dampening construction
- Double DIN standard size for all models
- Backup via external USB device or local network
- Available in 4G & WiFi model to allow mobile remote viewing from anywhere *(SIM not included)*

High Precision GPS Tracking

Built-in Power over Ethernet

Robust Chassis & Lockable HDD Tray

	Specifications	4 Channel Mobile NVR	8 Channel Mobile NVR
Product	Product Image		
	Ordering Information	**MNVR-GPS:** 4 Channel, Includes GPS **MNVR-GPS4GW:** 4 Channel, Includes GPS, 4G & WiFi	**MNVR-GPS8GW:** 8 Channel, Includes GPS, 4G & WiFi
General	Main Processor	Embedded Processor	
	Operating System	Embedded Linux	
	Video Input	4 channels	8 channels
	Two-way Talk	1 channel input, 1 channel output (aviation connector), RCA	
	Interoperability	ONVIF 2.3 conformant	
Display	Video Output	1 x HDMI, 1 x VGA, 2 x TV	1x VGA
	Display Resolution	Configurable from 1920 x 1080 to 1024 x 768	
	Display Split	1/4	
	OSD	Camera title, Time, Video loss, Camera lock, Motion detection	
Recording	Recording Resolution	Configurable from 1080p (1920 x 1080) to D1 (704 x 576)	
	Recording Rate	200Mbps	
	Video Compression	H.264	
	Bit Rate	H.264: 48 ~ 8192Kbps	
	Record Modes	Manual / Schedule (Regular [Continuous], MD, Alarm) / Stop	
	Record Interval	1~120 min (default: 60 min) / Pre-record: 1~30s / Post-record: 10~300s	
Features	Alarm Input / Output	8 channels input / 2 channels relay output	
	Trigger Events	Recording, PTZ, Tour, Alarm, Video Push, Email, FTP, Buzzer	
	Video Detection	Motion Detection, Motion Zones: 396 (22 x 18), Video Loss & Tampering	
	Playback Sync	1/4	
	Search Modes	Time/Date, Alarm, By Motion, Exact search, Smart search	
	Backup Modes	USB Device / eSATA Device / Network	
Network	Ethernet	1 x RJ-45 port (10/100/1000M)	
	Power over Ethernet	4 ports (IEEE802.3af)	8 ports (IEEE802.3af/at)
	Network Functions	HTTP, IPv4, TCP/IP, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, FTP, IP Filter	
	GPS Functions	Built-in high precision GPS module / Overlay: car number, time, position, speed	
	Max. User Access	128 users	
	Remote View	iOS (iPhone, iPad); Android devices, Windows Phone (Requires optional 3G/4G module)	
Storage	Internal HDD	2 x 2.5" SATA ports, up to 8TB / 1 x SD card slot, up to 128GB	
	HDD Modes	Single (no RAID compatibility)	
	USB Interface	3 ports: 2 x USB3.0 (front), 1 x USB2.0 (rear)	
	Auxiliary Inputs	1 x RS232 / 1 x RS485	
Environment	Power Supply	6 ~ 36VDC	
	Power Consumption	< 15W (without HDD)	
	Operating Environment	-30 ~ +60°C / 0~90%RH	
	Dimensions / Rack Units	190 x 229 x 110mm / 2 DIN	
	Weight	3.0kg (without HDD)	
Additional Information	Product Detail		

Ultimate Series
Motorised IP Cameras

Series Overview

Stream high quality CCTV footage with Ultra HD resolution, excellent colour reproduction and superb image performance even in challenging lighting conditions. All with advanced intelligent video functions (IVS) and efficient H.265+ video encoding.

Model Reference

SKU	Description
VSIP2MPFBIRLV3	2.0MP Motorised Bullet (Low Light)
VSIP12MPFBIRMV2	12.0MP Motorised Bullet
VSIP2MPVDIRLV2	2.0MP Motorised Dome (Low Light)
VSIP12MPVDIRMV2	12.0MP Motorised Dome
VSIPE8MPFBIRM (H, -Z)	8.0MP Motorised Bullet (Heater, Zoom lens 7~35mm)
VSIPE8MPVDIRM (H, -Z)	8.0MP Motorised Dome (Heater, Zoom lens 7~35mm)
VSIPE6MPVDIRMG	6.0MP Motorised Dome
VSIPE8MPVDIRMG	8.0MP Motorised Dome

Stream up to 12.0MP
Capture footage beyond Ultra HD with up to 4000 x 3000 resolution.

Clear Footage at All Hours
With low light colour (select models), True WDR & auto white balance.

Extended Power over Ethernet
Utilise PoE over a long distance, with a maximum range of 800m.

Intelligent Video Systems Plus
Go beyond standard IVS functions with EIS, Defog, People Counting & Heat Map.

Direct, Reliable Recording
Record at the edge with microSD storage up to 128GB.

High Efficient Video Coding
Advanced H.265 encoding saves up to 50% on bandwidth and storage.

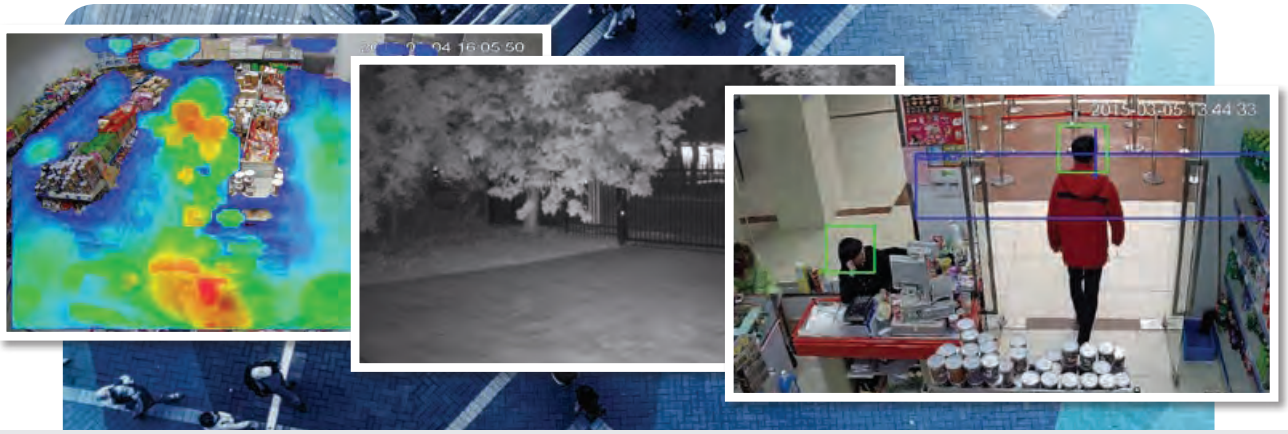
Series Highlights

Evidence when it matters most

with up to 12.0MP streaming resolution

Ultimate Series cameras deliver the best in image performance, capturing Ultra HD & beyond resolution video at real-time frame rates.

- Stream up to 12.0MP at 20fps / 8.0MP at 25fps
- Best in CCTV optics with motorised varifocal lenses & auto iris (DC) as standard across the series
- Large image sensors and latest DSP / chipsets



Highly customisable IP surveillance with intelligent video analytics

including virtual tripwire, intrusion detection, abandoned & missing object detection & more

Revolutionise CCTV use with the Ultimate Series' range of advanced intelligent functions, featuring:

- **People Counting** - Optimise flow & room layout by logging people traffic, visualise with heat map.
- **Heat Mapping** - Displays traffic density & frequency statistics with a coloured video overlay.
- **Electronic Image Stabilisation** - Maintain quality video evidence if the camera vibrates or shakes.
- **Face Detection** - Detect, alert & playback footage using faces that enter the camera's field of view
- **Smart Scene Adaptive** - Automatically adapt to changing elements in a scene, eg: vehicle headlights.

The best in camera performance

with a wide arrange of versatile camera options

The Ultimate Series has the answer to any surveillance application, with specialised cameras that caters to difficult installations while still delivering superb image quality and functionality.

- Heater models prevent in-camera condensation
- Low-light 2.0MP models with colour at 0.002lx
- Narrow 7~35m motorised lens models - detects people from 234m & identifies faces from 23m

The peak of performance.

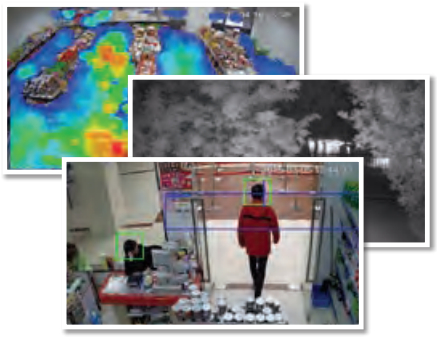
Ultimate Series: Intelligent motorised lens bullets, in 2.0MP & 12.0MP

Experience the best in surveillance with the Ultimate Series. These bullets offer the best in resolution and feature an extensive list of intelligent functions, including defogging, people counting, heat mapping, EIS and much more.

- Stream beyond 4K at 12.0MP (4000 x 3000) at 20fps
- Excellent low light performance; colour at 0.002 lux
- Motorised lens & auto iris for up to 4x optical zoom
- Up to 50m smart infrared; true day/night (auto ICR)
- MicroSD slot for recording at the edge up to 128GB
- H.265 high efficiency video compression technology
- Face detection & electronic image stabilisation
- Backlight/highlight compensation and WDR
- Alarm and audio interface; tester video output
- Full metal IP67/IK10 weather/vandal rated housing

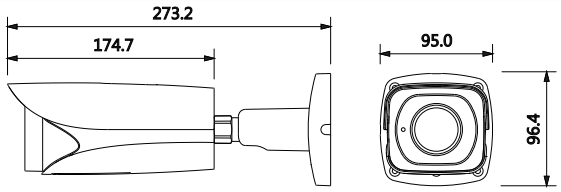
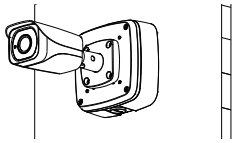
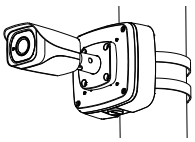
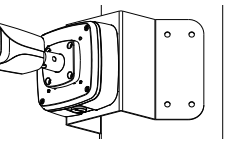
Record at Beyond Ultra HD Quality

Exceptional Camera Functionality



Extensive Intelligent Functions

	Specifications		2.0MP Motorised Bullet	12.0MP Motorised Bullet
	Ordering Information		**VSIP2MPFBIRLV3:** Standard	**VSIP12MPFBIRMV2:** Standard
Camera	Image Sensor		1/1.9″ 2.0MP Progressive Scan CMOS	1/1.7″ 12.0MP Progressive Scan CMOS
	Effective Pixels		1920 (H) x 1080 (V)	4000 (H) x 3000 (V)
	RAM / ROM		1024MB / 128MB	
	Min Illumination		0.002 Lux/F1.53 (Color), 0 Lux/F1.53 (IR on)	0.02 Lux/F1.53 (Color), 0 Lux/F1.53 (IR on)
	S/N Ratio		> 50dB	
	Infrared System		4 x Infrared LED, 50m range, Auto/manual on/off control	
Lens	Lens / Iris		4.1 ~ 16.4mm F1.53 Motorised Varifocal Lens with Auto Iris	4.1 ~ 16.4mm F1.53 Motorised Varifocal Lens with Auto Iris
	Field of View		Horizontal: 104°~33°, Vertical: 57°~18° (4x Optical Zoom)	Horizontal: 85°~35°, Vertical: 63°~26° (4x Optical Zoom)
	Focus		Auto Focus / 0.5m Min. Focus Distance	
DORI	Detect (25px/m)		57m (wide) / 137m (tele)	115m (wide) / 227m (tele)
	Observe (63px/m)		23m (wide) / 55m (tele)	46m (wide) / 111m (tele)
	Recognise (125px/m)		11m (wide) / 27m (tele)	23m (wide) / 55m (tele)
	Identify (250px/m)		6m (wide) / 14m (tele)	11m (wide) / 28m (tele)
Video	Resolution		1080p (1920 x 1080) to CIF (352 x 288)	12.0MP (4000 x 3000) to CIF (352 x 288)
	Frame Rate	Main	1080p (1 ~ 50fps)	12.0MP (1 ~ 20fps) / 8.0MP (1 ~ 25fps)
		Sub	D1 (1 ~ 50fps)	D1 (1 ~ 25fps)
		Third	1080p (1~50fps)	1080p (1 ~ 25fps)
	Video Compression		H.265+ / H.265 / H.264+ / H.264	
	Bit Rate		H.265: 14 ~ 6144Kbps / H.264: 24 ~ 10240Kbps	H.265: 14 ~ 9984Kbps / H.264: 24 ~ 16384Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)	
	Day/Night		Auto (ICR) / Color / B&W	
	Lighting Compensation		BLC / HLC / WDR (120dB) / SSA	BLC / HLC / Digital WDR / SSA
	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual	
	Gain Control		Auto / Manual	
	Noise Reduction		3D DNR	
	Picture Control		Mirror / Flip (0°, 90°, 180°, 270°)	
IVS	Intelligent Functions		Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared, Electronic Image Stabilisation, Defog, People Counting, Heat Map	
Network	Ethernet		RJ-45 (100/1000 Base-T)	
	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/IPv6; QoS; UPnP; NTP; Bonjour; IEEE 802.1x; Multicast; ICMP; IGMP; SNMP; TLS	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
	Streaming Method		Unicast / Multicast	
	Max. User Access		10 Users / 20 Users	
Interface	Video Interface		Video Tester Composite Output	
	Audio Interface		1 Input, 1 Output / Compression: G.711a, G.711Mu, AAC, G.726	
	Alarm Interface		2 Input / 1 Output	
	RS485		N/A	
	Edge Storage		MicroSD Card Slot (up to 128GB) / NAS / Local PC	
	Interoperability		ONVIF / PSIA / CGI	
Environmental	Power Supply		12VDC / PoE+ (802.3at) (Class 4)	
	Power Consumption		<13W	
	Operating Conditions		-40° ~ +60° C / Less than 95% RH	
	Ingress Protection		IP67	
	Vandal Resistance		IK10	
	Housing		Metal	
	Pan/Tilt/Rotation		Pan: 0° ~ 360 ° ; Tilt: 0° ~ 90° ; Rotation: 0° ~ 360°	
	Dimensions		Ø273mm x 95mm x 96mm	
	Net Weight		1.12kg	

	Motorised Bullet Installation		
Application	Diagrams		
	Mounting Options		
		Junction Box	Pole Mount
		VSBKTA121	VSBKTA121 + VSBKTA152E
			
			Corner Mount
			VSBKTA121 + VSBKTA151

Unparalleled versatility.

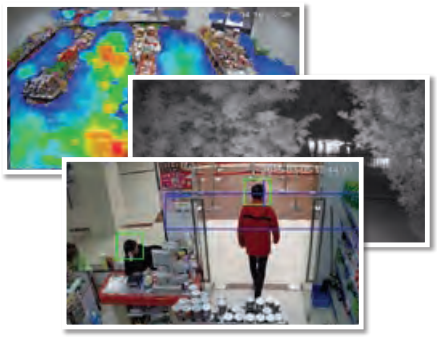
Ultimate Series: Intelligent motorised lens domes, in 2.0MP & 12.0MP

Experience the best in surveillance with the Ultimate Series. These domes offer the best in resolution and feature an extensive list of intelligent functions, including defogging, people counting, heat mapping, EIS and much more.

- Stream beyond 4K at 12.0MP (4000 x 3000) at 20fps
- Excellent low light performance; colour at 0.002 lux
- Motorised lens & auto iris for up to 4x optical zoom
- Up to 50m smart infrared; true day/night (auto ICR)
- MicroSD slot for recording at the edge up to 128GB
- H.265 high efficiency video compression technology
- Face detection & electronic image stabilisation
- Backlight/highlight compensation and WDR
- Alarm and audio interface; tester video output
- Metal IP67/IK10 weather/vandal rated housing

Record at Beyond Ultra HD Quality

Exceptional Camera Functionality



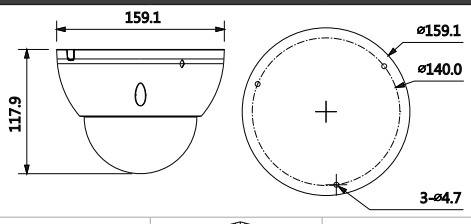
Extensive Intelligent Functions

	Specifications		2.0MP Motorised Dome	12.0MP Motorised Dome
	Ordering Information		**VSIP2MPVDIRLV3:** Standard	**VSIP12MPVDIRMV2:** Standard
Camera	Image Sensor		1/1.9″ 2.0MP Progressive Scan CMOS	1/1.7″ 12.0MP Progressive Scan CMOS
	Effective Pixels		1920 (H) x 1080 (V)	4000 (H) x 3000 (V)
	RAM / ROM		1024MB / 128MB	
	Min Illumination		0.002 Lux/F1.53 (Color), 0 Lux/F1.53 (IR on)	0.02 Lux/F1.53 (Color), 0 Lux/F1.53 (IR on)
	S/N Ratio		> 50dB	
	Infrared System		3 x Infrared LED, 50m range, Auto/manual on/off control	
Lens	Lens / Iris		4.1 ~ 16.4mm F1.53 Motorised Varifocal Lens with Auto Iris	4.1 ~ 16.4mm F1.53 Motorised Varifocal Lens with Auto Iris
	Field of View		Horizontal: 104°~33°, Vertical: 57°~18° (4x Optical Zoom)	Horizontal: 105°~35°, Vertical: 77°~26° (4x Optical Zoom)
	Focus		Auto Focus / 1m Min. Focus Distance	
DORI	Detect (25px/m)		57m (wide) / 137m (tele)	115m (wide) / 227m (tele)
	Observe (63px/m)		23m (wide) / 55m (tele)	46m (wide) / 111m (tele)
	Recognise (125px/m)		11m (wide) / 27m (tele)	23m (wide) / 55m (tele)
	Identify (250px/m)		6m (wide) / 14m (tele)	11m (wide) / 28m (tele)
Video	Resolution		1080p (1920 x 1080) to CIF (352 x 288)	12.0MP (4000 x 3000) to CIF (352 x 288)
	Frame Rate	Main	1080p (1 ~ 50fps)	12.0MP (1 ~ 20fps) / 8.0MP (1 ~ 25fps)
		Sub	D1 (1 ~ 50fps)	D1 (1 ~ 25fps)
		Third	1080p (1 ~ 50fps)	1080p (1 ~ 25fps)
	Video Compression		H.265+ / H.265 / H.264+ / H.264	
	Bit Rate		H.265: 14 ~ 6144Kbps / H.264: 24 ~ 10240Kbps	H.265: 14 ~ 9984Kbps / H.264: 24 ~ 16384Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)	
	Day/Night		Auto (ICR) / Color / B&W	
	Lighting Compensation		BLC / HLC / WDR (120dB) / SSA	BLC / HLC / Digital WDR / SSA
	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual	
	Gain Control		Auto / Manual	
	Noise Reduction		3D DNR	
	Picture Control		Mirror / Flip (0°, 90°, 180°, 270°)	
IVS	Intelligent Functions		Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared, Electronic Image Stabilisation, Defog, People Counting, Heat Map	
Network	Ethernet		RJ-45 (10/1000 Base-T)	
	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/IPv4/v6; QoS; UPnP; NTP; Bonjour; IEEE 802.1x; Multicast; ICMP; IGMP; SNMP; TLS	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
	Streaming Method		Unicast / Multicast	
	Max. User Access		10 Users / 20 Users	
Interface	Video Interface		Video Tester Composite Output	
	Audio Interface		1 Input, 1 Output / Compression: G.711a, G.711Mu, AAC, G.726	
	Alarm Interface		1 Input / 1 Output	
	RS485		N/A	
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC	
	Interoperability		ONVIF / PSIA / CGI	
Environmental	Power Supply		12VDC / 24VAC / PoE+ (802.3at) (Class 4)	12VDC / PoE+ (802.3at) (Class 4)
	Power Consumption		<18W	
	Operating Conditions		-40° ~ +60° C / Less than 95% RH	
	Ingress Protection		IP67	
	Vandal Resistance		IK10	
	Housing		Metal, Polycarbonate	
	Pan/Tilt/Rotation		Pan: 0° ~ 355°; Tilt: 0° ~ 65° ; Rotation: 0° ~ 355°	
	Dimensions		Ø159mm x 118mm	
	Net Weight		0.96kg	

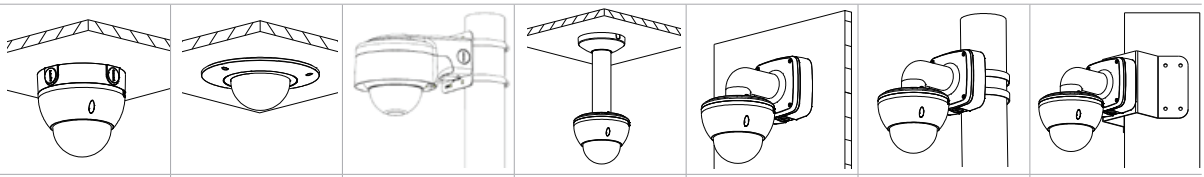
Motorised Dome Installation

Application

Diagrams



Mounting Options



Junction Box	In-Ceiling Mount	Rain Shield	Ceiling Extension	Wall Mount	Pole Mount	Corner Mount
VSBKTA138	VSBKTB201C	VSBKTB210W	VSBKTB300C + VSBKTA101	VSBKTB302S + VSBKTA101	VSBKTB302S + VSB-KTA101+ VSBKTA150	VSBKTB302S + VSB-KTA151 + VSBKTA101

Long range IP surveillance.

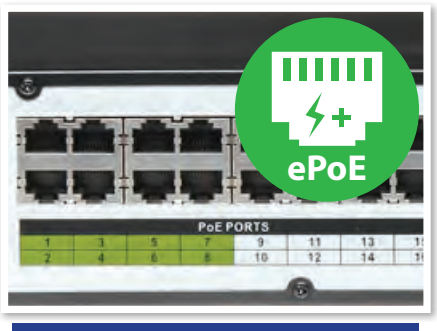
Ultimate Series: 8.0MP motorised bullets available in standard or zoom lens

Experience the best in surveillance with the Ultimate Series. Each bullet offers the best in resolution and image quality, with the tools to deliver excellent video evidence in even the most challenging lighting conditions.

- Stream up to Ultra HD 8.0MP (3840 x 2160) at 15fps
- 7~35mm zoom lens model identifies faces from 76m
- H.265 encoding for efficient storage & streaming
- Up to 100m infrared range; true day/night (auto ICR)
- MicroSD slot for recording at the edge up to 128GB
- Back/highlight compensation & true WDR (120dB)
- 3D digital noise reduction & auto white balance
- Alarm and audio interface; tester video output
- Full metal IP67/IK10 weather/vandal rated housing
- Extended PoE up to 800m *(requires ePoE NVR/switch)*

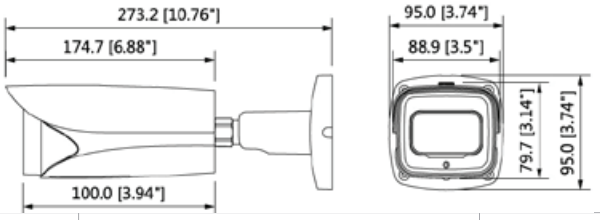
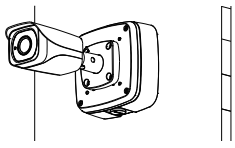
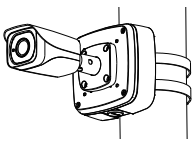
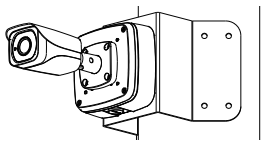
Record at 4K / Ultra HD Quality

Exceptional Camera Functionality



Extended PoE Compatibility

	Specifications		8.0MP Motorised Bullet	8.0MP Motorised Bullet (Zoom Lens)
	Ordering Information		**VSIPE8MPFBIRM:** 2.7 ~ 12mm Lens **VSIPE8MPFBIRMH:** 2.7 ~ 12mm Lens + Built-in Heater	**VSIPE8MPFBIRM-Z:** 7 ~ 35mm Lens
Camera	Image Sensor		1/2.5" 8.0MP Progressive Scan CMOS	
	Effective Pixels		3840 (H) x 2160 (V)	
	RAM / ROM		512MB / 32MB	
	Min Illumination		0.05 Lux/F1.4 (Color), 0 Lux/F1.4 (IR on)	
	S/N Ratio		> 50dB	
	Infrared System		4 x Infrared LED, 50m range, Auto/manual on/off control	4 x Infrared LED, 100m range, Auto/manual on/off control
Lens	Lens / Iris		2.7 ~ 12mm F1.4 Motorised Varifocal Lens with Auto Iris (DC)	7 ~ 35mm F1.4 Motorised Varifocal Lens with Auto Iris (HALL)
	Field of View		Horizontal: 110°~40°, Vertical: 58°~23° (4x Optical Zoom)	Horizontal: 38°~14°, Vertical: 22°~8° (5x Optical Zoom)
	Focus		Auto Focus / 0.6m Min. Focus Distance	
DORI	Detect (25px/m)		85m (wide) / 228m (tele)	234m (wide) / 765m (tele)
	Observe (63px/m)		34m (wide) / 91m (tele)	94m (wide) / 306m (tele)
	Recognise (125px/m)		17m (wide) / 46m (tele)	47m (wide) / 153m (tele)
	Identify (250px/m)		8.5m (wide) / 23m (tele)	23m (wide) / 76m (tele)
Video	Resolution		8.0MP (3840 x 2160) to CIF (352 x 288)	
	Frame Rate	Main	8.0MP (1 ~ 15fps) / 3.0MP (1 ~ 25fps)	
		Sub	D1 (1 ~ 25fps)	
		Third	720p (1 ~25fps)	
	Video Compression		H.265 / H.264	
	Bit Rate		H.265: 14 ~ 9984Kbps / H.264: 24 ~ 10240Kbps	
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)	
	Day/Night		Auto (ICR) / Color / B&W	
	Lighting Compensation		BLC / HLC / WDR (120dB)	
	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual	
	Gain Control		Auto / Manual	
	Noise Reduction		3D DNR	
	Picture Control		Mirror / Flip (0°, 90°, 180°, 270°)	
IVS	Intelligent Functions		Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared	
Network	Ethernet		RJ-45 (10/100Base-T)	
	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP	
	Streaming Method		Unicast / Multicast	
	Max. User Access		10 Users / 20 Users	
Interface	Video Interface		Video Tester Composite Output	
	Audio Interface		1 Input, 1 Output / Compression: G.711a, G.711Mu, AAC, G.726	
	Alarm Interface		2 Input (5mA 5VDC) / 1 Output (300mA 12VDC)	
	RS485		N/A	
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC	
	Interoperability		ONVIF / PSIA / CGI	
Environmental	Power Supply		12VDC / PoE (802.3af) (Class 0)	
	Power Consumption		<13W	
	Operating Conditions		-30° ~ +60° C / Less than 95% RH	
	Ingress Protection		IP67	
	Vandal Resistance		IK10	
	Housing		Metal	
	Pan/Tilt/Rotation		Pan: 0° ~ 360 °; Tilt: 0° ~ 90°; Rotation: 0° ~ 360°	
	Dimensions		95mm x 95mm x 273mm	
	Net Weight		1.11kg	

	Motorised Bullet Installation		
Application	Diagrams		
	Mounting Options		
		Junction Box	Pole Mount
		VSBKTA121	VSBKTA121 + VSBKTA152E
			
		Corner Mount	
		VSBKTA121 + VSBKTA151	

Ultimate performance.

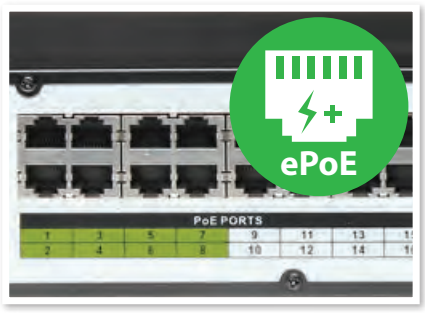
Ultimate Series: 8.0MP motorised domes available in standard or zoom lens

Experience the best in surveillance with the Ultimate Series. Each dome offers the best in resolution and image quality, with the tools to deliver excellent video evidence in even the most challenging lighting conditions.

- Stream up to Ultra HD 8.0MP (3840 x 2160) at 15fps
- 7~35mm zoom lens model identifies faces from 76m
- H.265 encoding for efficient storage & streaming
- Up to 100m infrared range; true day/night (auto ICR)
- MicroSD slot for recording at the edge up to 128GB
- Back/highlight compensation & true WDR (120dB)
- 3D digital noise reduction & auto white balance
- Alarm and audio interface; tester video output
- Metal IP67/IK10 weather/vandal rated housing
- Extended PoE up to 800m *(requires ePoE NVR/switch)*

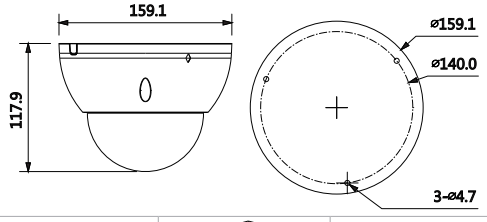
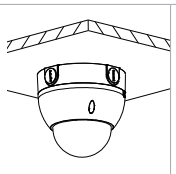
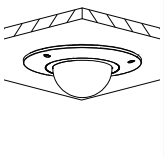
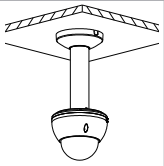
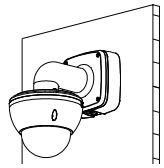
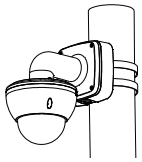
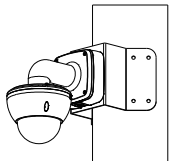
Record at 4K / Ultra HD Quality

Exceptional Camera Functionality



Extended PoE Compatibility

	Specifications		8.0MP Motorised Dome	8.0MP Motorised Dome (Zoom Lens)
	Ordering Information		**VSIPE8MPVDIRM:** 2.7 ~ 12mm Lens **VSIPE8MPVDIRMH:** 2.7 ~ 12mm Lens, Built-in Heater	**VSIPE8MPVDIRM-Z:** 7~35mm Lens
Camera	Image Sensor		1/2.5" 8.0MP Progressive Scan CMOS	
	Effective Pixels		3840 (H) x 2160 (V)	
	RAM / ROM		512MB / 32MB	
	Min Illumination		0.05 Lux/F1.4 (Color), 0 Lux/F1.4 (IR on)	
	S/N Ratio		> 50dB	
	Infrared System		3 x Infrared LED, 50m range, Auto/manual on/off control	3 x Infrared LED, 100m range, Auto/manual on/off control
Lens	Lens / Iris		2.7 ~ 12mm F1.4 Motorised Varifocal Lens with Auto Iris	7 ~ 35mm F1.4 Motorised Varifocal Lens with Auto Iris
	Field of View		Horizontal: 110°~40°, Vertical: 58°~23° (4x Optical Zoom)	Horizontal: 38°~14°, Vertical: 22°~8° (5x Optical Zoom)
	Focus		Auto Focus / 0.3m Min. Focus Distance	Auto Focus / 0.6m Min. Focus Distance
DORI	Detect (25px/m)		85m (wide) / 228m (tele)	234m (wide) / 765m (tele)
	Observe (63px/m)		34m (wide) / 91m (tele)	94m (wide) / 306m (tele)
	Recognise (125px/m)		17m (wide) / 46m (tele)	47m (wide) / 153m (tele)
	Identify (250px/m)		8.5m (wide) / 23m (tele)	23m (wide) / 76m (tele)
Video	Resolution		8.0MP (3840 x 2160) to CIF (352 x 288)	
	Frame Rate	Main	8.0MP (1 ~ 15fps) / 3.0MP (1 ~ 25fps)	
		Sub	D1 (1 ~ 25fps)	
		Third	720p (1 ~ 25fps)	
	Video Compression		H.265 / H.264	
	Bit Rate		H.265: 14 ~ 9984Kbps / H.264: 24 ~ 10240Kbps	
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)	
	Day/Night		Auto (ICR) / Color / B&W	
	Lighting Compensation		BLC / HLC / WDR (120dB)	
	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual	
	Gain Control		Auto / Manual	
	Noise Reduction		3D DNR	
	Picture Control		Mirror / Flip (0°, 90°, 180°, 270°)	
IVS	Intelligent Functions		Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared	
Network	Ethernet		RJ-45 (10/100 Base-T)	
	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP	
	Streaming Method		Unicast / Multicast	
	Max. User Access		10 Users / 20 Users	
Interface	Video Interface		Video Tester Composite Output	
	Audio Interface		1 Input, 1 Output / Compression: G.711a, G.711Mu, AAC, G.726	
	Alarm Interface		1 Input / 1 Output	
	RS485		N/A	
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC	
	Interoperability		ONVIF / PSIA / CGI	
Environmental	Power Supply		12VDC / PoE+ (802.3at) (Class 4)	
	Power Consumption		<15W	
	Operating Conditions		-30° ~ +60° C / Less than 95% RH	
	Ingress Protection		IP67	
	Vandal Resistance		IK10	
	Housing		Metal, Polycarbonate	
	Pan/Tilt/Rotation		Pan: 0° ~ 355°; Tilt: 0° ~ 65° ; Rotation: 0° ~ 355°	
	Dimensions		Ø159mm x 118mm	
	Net Weight		0.96kg	

	Motorised Dome Installation						
Application	Diagrams						
	Mounting Options							
		Junction Box	In-Ceiling Mount	Rain Shield	Ceiling Extension	Wall Mount	Pole Mount	Corner Mount
		VSBKTA138	VSBKTB201C	VSBKTB210W	VSBKTB300C + VSBKTA101	VSBKTB302S + VSBKTA101	VSBKTB302S + VSB-KTA101+ VSBKTA150	VSBKTB302S + VSB-KTA151 + VSBKTA101

Unrivalled image clarity.

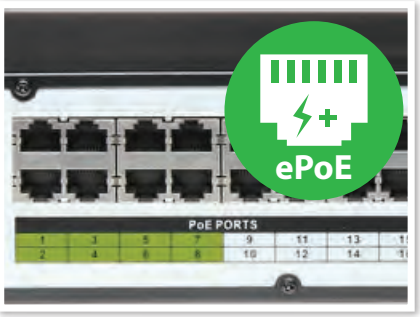
Ultimate Series: Motorised lens domes available in 6.0MP & 8.0MP

Experience Ultra HD quality surveillance with this Professional dome series. Enjoy crystal clear images up to 4K/Ultra HD with a flat glass lens cover, plus the convenience of a motorised varifocal lens for remote zoom adjustments.

- Stream up to 4K/8.0MP (3840 x 2160) at 15fps
- H.265 encoding for efficient storage & streaming
- 50m infrared range; true day/night (auto ICR)
- MicroSD slot for recording at the edge up to 128GB
- Single channel audio input/output
- Back/highlight compensation & true WDR (120dB)
- 3D digital noise reduction & auto white balance
- IP67 weather rated full metal dome housing
- Extend PoE up to 800m *(requires ePoE NVR/switch)*
- ONVIF PSIA and CGI compliance

Record at 4K/Ultra HD Resolution

Edge Recording via MicroSD

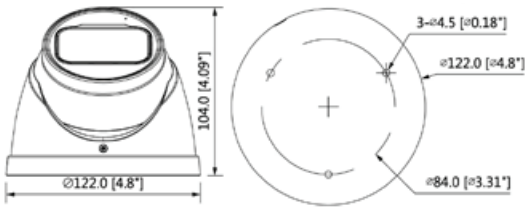


Extended PoE Compatibility

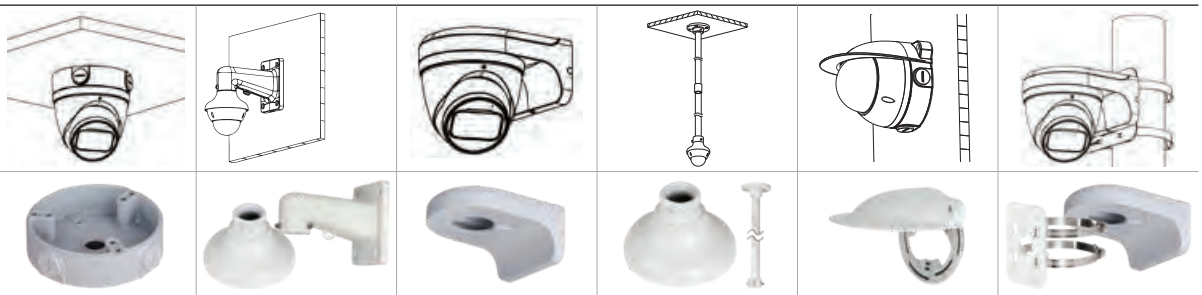
	Specifications		6.0MP Motorised Dome	8.0MP Motorised Dome
	Ordering Information		**VSIPE6MPVDIRMG:** Standard	**VSIPE8MPVDIRMG:** Standard
Camera	Image Sensor		1/2.9″6.0MP Progressive Scan CMOS	1/2.5″8.0MP Progressive Scan CMOS
Camera	Effective Pixels		3072 (H) x 2048 (V)	3840 (H) x 2160 (V)
Camera	RAM / ROM		512MB / 32MB	
Camera	Min Illumination		0.03 Lux/F1.4 (Color), 0 Lux/F1.4 (IR on)	0.05 Lux/F1.4 (Color), 0 Lux/F1.4 (IR on)
Camera	S/N Ratio		> 50dB	
Camera	Infrared System		2 x Infrared LED, 50m range, Auto/manual on/off control	
Lens	Lens / Iris		2.7 ~ 13.5mm F1.4 Motorised Varifocal Lens with Auto Iris	2.7 ~ 12mm F1.4 Motorised Varifocal Lens with Auto Iris
Lens	Field of View		Horizontal: 91°~27°, Vertical: 58°~18° (5x Optical Zoom)	Horizontal: 110°~40°, Vertical: 58°~23° (4x Optical Zoom)
Lens	Focus		Auto Focus / 0.2m Min. Focus Distance	Auto Focus / 0.3m Min. Focus Distance
DORI	Detect (25px/m)		79m (wide) / 256m (tele)	85m (wide) / 228m (tele)
DORI	Observe (63px/m)		32m (wide) / 102m (tele)	34m (wide) / 91m (tele)
DORI	Recognise (125px/m)		16m (wide) / 51m (tele)	17m (wide) / 46m (tele)
DORI	Identify (250px/m)		8m (wide) / 25m (tele)	8.5m (wide) / 23m (tele)
Video	Resolution		6.0MP (3072 x 2048) to CIF (352 x 288)	8.0MP (3840 x 2160) to CIF (352 x 288)
Video	Frame Rate	Main	6.0MP (1 ~ 20fps) / 4.0MP (1 ~ 25fps)	8.0MP (1 ~ 15fps) / 3.0MP (1 ~ 25fps)
Video		Sub	D1 (1 ~ 25fps)	
Video		Third	720p (1 ~ 25fps)	
Video	Video Compression		H.265 / H.264	
Video	Bit Rate		H.265: 14 ~ 9984Kbps / H.264: 24 ~ 10240Kbps	
Video	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)	
Video	Day/Night		Auto (ICR) / Color / B&W	
Video	Lighting Compensation		BLC / HLC / WDR (120dB)	
Video	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual	
Video	Gain Control		Auto / Manual	
Video	Noise Reduction		3D DNR	
Video	Picture Control		Mirror / Flip (0°, 90°, 180°, 270°)	
IVS	Intelligent Functions		Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared	
Network	Ethernet		RJ-45 (10/100 Base-T)	
Network	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP	
Network	Streaming Method		Unicast / Multicast	
Network	Max. User Access		10 Users / 20 Users	
Interface	Video Interface		N/A	
Interface	Audio Interface		1 Input, 1 Output / Compression: G.711a, G.711Mu, AAC, G.726	
Interface	Alarm Interface		N/A	
Interface	RS485		N/A	
Interface	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC	
Interface	Interoperability		ONVIF / PSIA / CGI	
Environmental	Power Supply		12VDC / PoE (802.3af) (Class 0)	
Environmental	Power Consumption		<8.5W	
Environmental	Operating Conditions		-30° ~ +60° C / Less than 95% RH	
Environmental	Ingress Protection		IP67	
Environmental	Vandal Resistance		N/A	
Environmental	Housing		Metal	
Environmental	Pan/Tilt/Rotation		Pan: 0° ~ 360°; Tilt: 0° ~ 78° ; Rotation: 0° ~ 360°	
Environmental	Dimensions		Ø122mm x 104mm	
Environmental	Net Weight		0.60kg	

Motorised Dome Installation

Application — Diagrams



Application — Mounting Options



Junction Box	Right Angle Wall Mount	Right Angle Wall Mount	Ceiling Extension	Wall Mount Rain Shield	Pole Mount
VSBKTA137	VSBKTA106 + VSBKTB305W	VSBKTB203W	VSBKTA106 + VSBKTB220C	VSBKTA200W	VSBKTA152 + VSBKTB203W

Professional Series
Motorised & Fixed IP Cameras

Series Overview

Enjoy the versatility of motorised lens & the high value of fixed lens surveillance with the Professional Series, available in dome and bullet models.

The range features modern, desirable camera features to ensure high quality evidence in any setting and at any time.

Model Reference

SKU	Description
VSIP4/8MPFBIRMD	4.0MP / 8.0MP Motorised Bullet
VSIP4/8MPVDIRMD	4.0MP / 8.0MP Motorised Vandal Dome
VSIP4MPVDIRME	4.0MP Motorised Turret Dome
VSIP2/6/8FBMINIIR	2.0MP / 6.0MP / 8.0MP Fixed Mini Bullet
VSIPE2/6FBMINIIR	2.0MP / 6.0MP Fixed Bullet
VSIPE2/4/6/8VDMINIIRC	2.0MP / 4.0MP / 6.0MP / 8.0MP Fixed Turret Dome
VSIP4MPVDIRFV2	4.0MP Fixed Wedge Dome
VSIP2MPFBFC	2.0MP Full Colour Fixed Bullet
VSIP2MPVDFC	2.0MP Full Colour Fixed Dome

Stream up to Ultra HD
Capture footage at 4K / Ultra HD with up to 3840 x 2160 resolution.

Clear Footage at All Hours
With low light colour (select models), True WDR & auto white balance.

Extended Power over Ethernet
Utilise PoE over a long distance, with a maximum range of 800m.

Intelligent Video Systems
Impressive CCTV features with Tripwire, Intrusion, Face/Motion Detect & more.

Recording at the Edge
Record at the edge & add reliability with microSD storage up to 128GB.

High Efficient Video Coding
Advanced H.265 encoding saves up to 50% on bandwidth and storage.

Series Highlights

CCTV solutions for any application

with a wide range of models in fixed & motorised

Achieve more with the motorised varifocal range, with remote zoom and focus configuration as standard.

Professional Series fixed cameras deliver 4K quality for less, delivering powerful surveillance across all fronts.

- Stream up to 4K / Ultra HD 8.0MP at 25fps
- Motorised varifocal: remote setting of zoom & focus
- Fixed lens cameras in 2.8mm, 3.6mm & 6.0mm

Capture clear video evidence

with True WDR & lighting compensation

The entire Professional Series features several auto image adjustment technologies, ensuring clear footage in almost any installation setting.

- True WDR (120dB), 3D digital noise reduction, back/highlight compensation across the range
- Impressive low light colour image performance

Edge recording & backup

with microSD storage cameras

Professional Series cameras support microSD storage for improved CCTV reliability or for recording without an NVR.

- Support for microSD cards up to 128GB
- Automatic network replenishment (ANR) after NVR connection loss

Get the most out of surveillance

with intelligent video surveillance analytics

Professional Series cameras feature intelligent video functions to enable smarter surveillance notifications, footage playback and remote view.

- Set motion detection for easy playback of footage
- Mask sensitive areas & configure regions of interest
- Receive alarm alerts from virtual tripwires, area intrusion, missing objects, face detection & more

Stellar 4K image quality.

Professional Series: Motorised lens bullets available in 4.0MP & 8.0MP

Each bullet in this series can remotely configure wide or narrow field of view, allowing you to enjoy hassle free surveillance installation and adjustment should your surveillance requirements or environment change.

- Stream up to Ultra HD (3840 x 2160) at 25fps
- H.265 encoding for efficient storage & streaming
- Long 60m infrared range; true day/night (auto ICR)
- MicroSD slot for recording at the edge up to 128GB
- Tripwire and intrusion video analytics (8.0MP only)
- Easy field of view adjustment with motorised lens
- Back/highlight compensation & true WDR (120dB)
- 3D digital noise reduction & auto white balance
- IP67 weather rated housing for outdoor use
- ONVIF, PSIA and CGI compliance

Record at 4K/Ultra HD Resolution

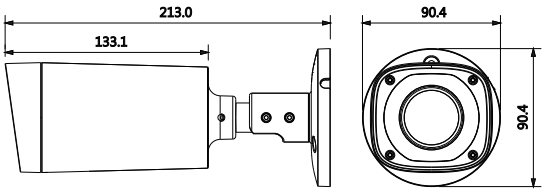
Long Range 60m Infrared

Edge Recording via MicroSD

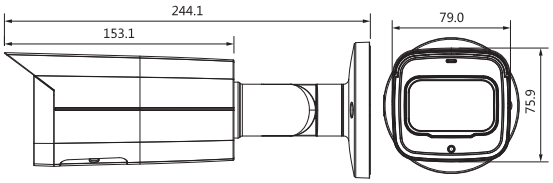
	Specifications		4.0MP Motorised Bullet	8.0MP Motorised Bullet
	Ordering Information		**VSIP4MPFBIRMD:** Standard	**VSIP8MPFBIRMD:** Standard
Camera	Image Sensor		1/3" 4.0MP Progressive Scan Exmor CMOS	1/2" 8.0MP Progressive Scan CMOS
Camera	Effective Pixels		2688 (H) x 1520 (V)	3840 (H) x 2160 (V)
Camera	RAM / ROM		512MB / 32MB	512MB / 128MB
Camera	Min Illumination		0.03 Lux/F1.4 (Color), 0 Lux/F1.4 (IR on)	0.004 Lux/F1.9 (Color), 0 Lux/F1.9 (IR on)
Camera	S/N Ratio		> 45dB	> 50dB
Camera	Infrared System		4 x Infrared LED, 60m range, Auto/manual on/off control	
Lens	Lens / Iris		2.7 ~ 13.5mm F1.4 Motorised Varifocal Lens with Fixed Iris	3.7 ~ 11mm F1.9 Motorised Varifocal Lens with Fixed Iris
Lens	Field of View		Horizontal: 104°~28°, Vertical: 55°~16° (5x Optical Zoom)	Horizontal: 112°~46°, Vertical: 60°~26° (3x Optical Zoom)
Lens	Focus		Auto Focus / 0.2m Min. Focus Distance	
DORI	Detect (25px/m)		64m (wide) / 222m (tele)	83m (wide) / 190m (tele)
DORI	Observe (63px/m)		26m (wide) / 89m (tele)	33m (wide) / 76m (tele)
DORI	Recognise (125px/m)		13m (wide) / 44m (tele)	17m (wide) / 38m (tele)
DORI	Identify (250px/m)		6m (wide) / 22m (tele)	8m (wide) / 19m (tele)
Video	Resolution		4.0MP (2688 x 1520) to CIF (352 x 288)	8.0MP (3840 x 2160) to CIF (352 x 288)
Video	Frame Rate	Main	4.0MP (1 ~ 20fps) / 3.0MP (1 ~ 25fps)	8.0MP (1 ~ 25fps)
Video		Sub	D1 (1 ~ 25fps)	
Video		Third	N/A	
Video	Video Compression		H.265+ / H.265 / H.264+ / H.264	
Video	Bit Rate		H.265: 12 ~ 8448Kbps / H.264: 32 ~ 10240Kbps	H.265: 16 ~ 8192Kbps / H.264: 32 ~ 8192Kbps
Video	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)	
Video	Day/Night		Auto (ICR) / Color / B&W	
Video	Lighting Compensation		BLC / HLC / WDR (120dB)	
Video	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual	
Video	Gain Control		Auto / Manual	
Video	Noise Reduction		3D DNR	
Video	Picture Control		Mirror / Flip (0°, 90°, 180°, 270°)	
IVS	Intelligent Functions		Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared	Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared, Tripwire, Intrusion
Network	Ethernet		RJ-45 (10/100Base-T)	
Network	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP	HTTP; HTTPS; TCP; ARP; RTSP; RTP; RTCP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; IEEE 802.1x; Multicast; ICMP; IGMP; TLS; NFS; SSH
Network	Streaming Method		Unicast / Multicast	
Network	Max. User Access		10 Users / 20 Users	
Interface	Video Interface		N/A	
Interface	Audio Interface		N/A	
Interface	Alarm Interface		N/A	
Interface	RS485		N/A	
Interface	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC	
Interface	Interoperability		ONVIF / PSIA / CGI	
Environmental	Power Supply		12VDC / PoE (802.3af) (Class 0)	
Environmental	Power Consumption		<13W	<14.3W
Environmental	Operating Conditions		-30° ~ +60° C / Less than 95% RH	
Environmental	Ingress Protection		IP67	
Environmental	Vandal Resistance		N/A	
Environmental	Housing		Metal	
Environmental	Pan/Tilt/Rotation		Pan: 0° ~ 360 °; Tilt: 0° ~ 90°; Rotation: 0° ~ 360°	
Environmental	Dimensions		Ø72mm x 80mm x 213mm	244 x 79 x 76mm
Environmental	Net Weight		0.69kg	0.82kg

Motorised Bullet Installation

Diagrams

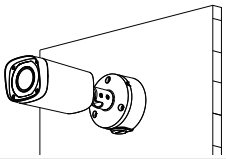


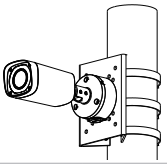
4.0MP Bullet

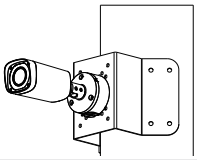


8.0MP Bullet

Application — Mounting Options







Junction Box	Pole Mount	Corner Mount
VSBKTA135	VSBKTA135 + VSBKTA152E	VSBKTA135 + VSBKTA151

Every application sorted.

Professional Series: Motorised lens domes available in 4.0MP & 8.0MP

The versatile dome camera that can fit any application. Each dome in this series features an array of tools to perform in just about any environment, with a vandal & weather rated housing, infrared, remote zoom control & more.

- Stream up to Ultra HD 8.0MP (3840 x 2160) at 25fps
- H.265 encoding for efficient storage & streaming
- Up to 30m infrared range; true day/night (auto ICR)
- MicroSD slot for recording at the edge up to 128GB
- Tripwire and intrusion video analytics (8.0MP only)
- Easy field of view adjustment with motorised lens
- Back/highlight compensation & true WDR (120dB)
- 3D digital noise reduction & auto white balance
- IP67/IK10 weather/vandal rated dome housing
- Great low light colour performance (8.0MP only)

Record at 4K/Ultra HD Resolution

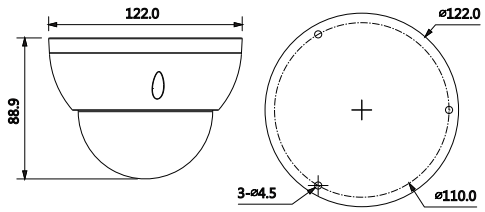
Edge Recording via MicroSD

Weather & Vandal Resistant

	Specifications		4.0MP Motorised Dome	8.0MP Motorised Dome
	Ordering Information		**VSIP4MPVDIRMD:** Standard	**VSIP8MPVDIRMD:** Standard
Camera	Image Sensor		1/3" 4.0MP Progressive Scan CMOS	1/2" 8.0MP Progressive Scan CMOS
Camera	Effective Pixels		2688 (H) x 1520 (V)	3840 (H) x 2160 (V)
Camera	RAM / ROM		512MB / 32MB	512MB / 128MB
Camera	Min Illumination		0.03 Lux/F1.4 (Color), 0 Lux/F1.4 (IR on)	0.004 Lux/F1.9 (Color), 0 Lux/F1.9 (IR on)
Camera	S/N Ratio		> 45dB	> 50dB
Camera	Infrared System		2 x Infrared LED, 30m range, Auto/manual on/off control	
Lens	Lens / Iris		2.7 ~ 13.5mm F1.4 Motorised Varifocal Lens with Fixed Iris	3.7 ~ 11mm F1.4 Motorised Varifocal Lens with Fixed Iris
Lens	Field of View		Horizontal: 104~28°, Vertical: 55°~16° (5x Optical Zoom)	Horizontal: 112~46°, Vertical: 60°~26° (3x Optical Zoom)
Lens	Focus		Auto Focus / 0.2m Min. Focus Distance	
DORI	Detect (25px/m)		64m (wide) / 222m (tele)	83m (wide) / 190m (tele)
DORI	Observe (63px/m)		26m (wide) / 89m (tele)	33m (wide) / 76m (tele)
DORI	Recognise (125px/m)		13m (wide) / 44m (tele)	17m (wide) / 38m (tele)
DORI	Identify (250px/m)		6m (wide) / 22m (tele)	8m (wide) / 19m (tele)
Video	Resolution		4.0MP (2688 x 1520) to CIF (352 x 288)	8.0MP (3840 x 2160) to CIF (352 x 288)
Video	Frame Rate	Main	4.0MP (1 ~ 20fps) / 2.0MP (1 ~ 25fps)	8.0MP (1 ~ 25fps)
Video		Sub	D1 (1 ~ 25fps)	
Video		Third	N/A	
Video	Video Compression		H.265+ / H.265 / H.264+ / H.264	H.265+ / H.265 / H.264+ / H.264 / MJPEG
Video	Bit Rate		H.265: 12 ~ 8448Kbps / H.264: 32 ~ 10240Kbps	H.265: 32 ~ 8192Kbps / H.264: 16 ~ 8192Kbps
Video	Bite Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)	
Video	Day/Night		Auto (ICR) / Color / B&W	
Video	Lighting Compensation		BLC / HLC / WDR (120dB)	
Video	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual	
Video	Gain Control		Auto / Manual	
Video	Noise Reduction		3D DNR	
Video	Picture Control		Mirror / Flip (0°, 90°, 180°, 270°)	
IVS	Intelligent Functions		Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared	Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared , Tripwire, Intrusion
Network	Ethernet		RJ-45 (10/100Base-T)	
Network	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/ v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP	HTTP; HTTPS; TCP; ARP; RTSP; RTP; RTCP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPV4/V6; QoS; UPnP; NTP; Bonjour; IEEE 802.1X; Multicast; ICMP; IGMP; TLS; NFS; SSH
Network	Streaming Method		Unicast / Multicast	
Network	Max. User Access		10 Users / 20 Users	
Interface	Video Interface		N/A	
Interface	Audio Interface		N/A	
Interface	Alarm Interface		N/A	
Interface	RS485		N/A	
Interface	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC	
Interface	Interoperability		ONVIF / PSIA / CGI	
Environmental	Power Supply		12VDC / PoE (802.3af) (Class 0)	
Environmental	Power Consumption		<8.5W	<10.9W
Environmental	Operating Conditions		-30° ~ +60° C / Less than 95% RH	
Environmental	Ingress Protection		IP67	
Environmental	Vandal Resistance		IK10	
Environmental	Housing		Metal & Polycarbonate Dome	
Environmental	Pan/Tilt/Rotation		Pan: 0° ~355 ° ; Tilt: 0° ~ 70° ; Rotation: 0° ~ 355°	
Environmental	Dimensions		Ø122mm x 89mm	
Environmental	Net Weight		0.40kg	0.49kg

Motorised Dome Installation

Application — Diagrams



Application — Mounting Options

Junction Box	In-Ceiling Mount	Right Angle Wall Mount	Ceiling Extension	Right Angle Wall Mount	Wall Mount Rain Shield	Pole Mount
VSBKTA137	VSBKTB200C	VSBKTB203W	VSBKTA106 + VSBKTB220C	VSBKTA106 + VSBKTB305W	VSBKTA200W	VSBKTA152 + VSBKTB203W

Excellent image detail.

Professional Series: Motorised lens turret dome available in 4.0MP

With flat glass between lens and subject, this dome series delivers superb clarity images, day or night. Enjoy crystal clear images at double Full HD with the convenience of a motorised varifocal lens for remote zoom adjustments.

- Stream up to 4.0MP (2688 x 1520) at 20fps
- Flat lens window for less distortion & more detail
- H.265 encoding for efficient storage & streaming
- 50m infrared range; true day/night (auto ICR)
- MicroSD slot for recording at the edge up to 128GB
- Easy field of view adjustment with motorised lens
- Back/highlight compensation & true WDR (120dB)
- 3D digital noise reduction & auto white balance
- IP67 weather rated full metal dome housing
- ONVIF, PSIA and CGI compliance

Double Full HD Resolution

Edge Recording via MicroSD

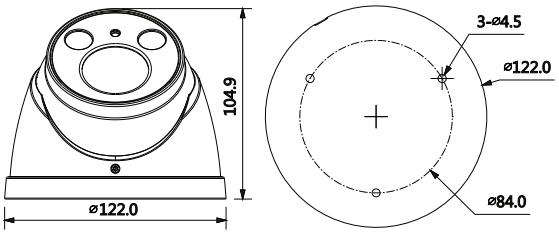
Weather & Vandal Resistant

	Specifications		4.0MP Motorised Dome
	Ordering Information		**VSIP4MPVDIRME:** Standard
Camera	Image Sensor		1/3" 4.0MP Progressive Scan CMOS
	Effective Pixels		2688 (H) x 1520 (V)
	RAM / ROM		512MB / 32MB
	Min Illumination		0.03 Lux/F1.4 (Color), 0 Lux/F1.4 (IR on)
	S/N Ratio		> 45dB
	Infrared System		2 x Infrared LED, 50m range, Auto/manual on/off control
Lens	Lens / Iris		2.7 ~ 13.5mm F1.4 Motorised Varifocal Lens with Fixed Iris
	Field of View		Horizontal: 104°~28°, Vertical: 55°~16° (5x Optical Zoom)
	Focus		Auto Focus / 0.2m Min. Focus Distance
DORI	Detect (25px/m)		55m (wide) / 222m (tele)
	Observe (63px/m)		26m (wide) / 89m (tele)
	Recognise (125px/m)		13m (wide) / 44m (tele)
	Identify (250px/m)		6m (wide) / 22m (tele)
Video	Resolution		4.0MP (2688 x 1520) to CIF (352 x 288)
	Frame Rate	Main	4.0MP (1 ~ 20fps) / 3.0MP (1 ~ 25fps)
		Sub	D1 (1 ~ 25fps)
		Third	N/A
	Video Compression		H.265 / H.264
	Bit Rate		H.265: 12 ~ 6400Kbps / H.264: 32 ~ 10240Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)
	Day/Night		Auto (ICR) / Color / B&W
	Lighting Compensation		BLC / HLC / WDR (120dB)
	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual
	Gain Control		Auto / Manual
	Noise Reduction		3D DNR
	Picture Control		Mirror / Flip (0°, 90°, 180°, 270°)
IVS	Intelligent Functions		Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared
Network	Ethernet		RJ-45 (10/100 Base-T)
	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
	Streaming Method		Unicast / Multicast
	Max. User Access		10 Users / 20 Users
Interface	Video Interface		N/A
	Audio Interface		N/A
	Alarm Interface		N/A
	RS485		N/A
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC
	Interoperability		ONVIF / PSIA / CGI
Environmental	Power Supply		12VDC / PoE (802.3af) (Class 0)
	Power Consumption		<11.5W
	Operating Conditions		-30° ~ +60° C / Less than 95% RH
	Ingress Protection		IP67
	Vandal Resistance		N/A
	Housing		Metal
	Pan/Tilt/Rotation		Pan: 0° ~ 360°; Tilt: 0° ~ 78° ; Rotation: 0° ~ 360°
	Dimensions		Ø122mm x 105mm
	Net Weight		0.60kg

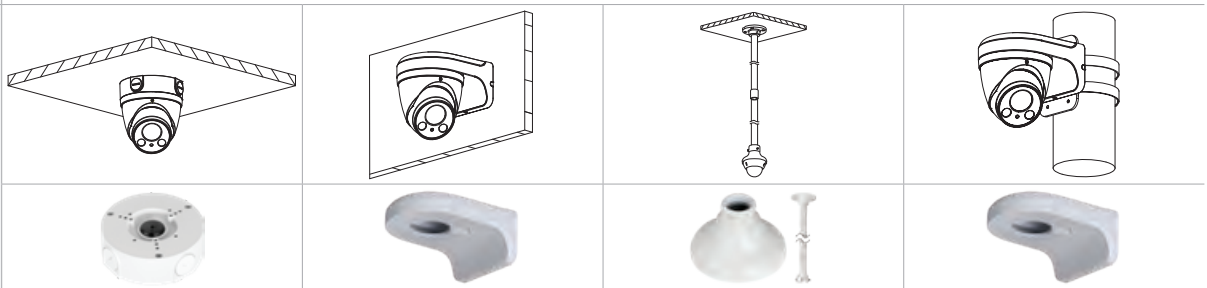
Motorised Dome Installation

Application

Diagrams



Mounting Options



Junction Box	Right Angle Wall Mount	Ceiling Extension	Pole Mount
VSBKTA130E	VSBKTB203W	VSBKTA106 + VSBKTB220C	VSBKTA152E + VSBKTB203W

Compact size, huge detail.

Professional Series: Fixed lens mini bullets available in 2.0MP, 6.0MP & 8.0MP

High performance fixed-lens surveillance in a compact body. Each bullet in this series offers professional features to take your surveillance to the next level, including true WDR, efficient H.265 compression and face detection.

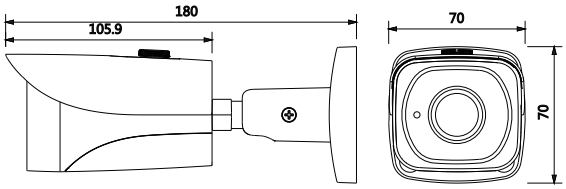
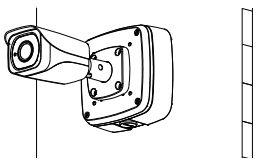
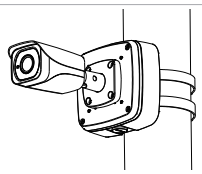
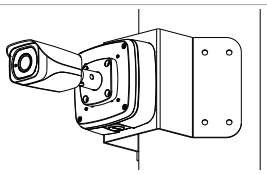
- Stream up to Full HD 1080p (1920 x 1080) at 50fps
- H.265 encoding for efficient storage & streaming
- 40m infrared range; true day/night (auto ICR)
- MicroSD slot for recording at the edge up to 128GB
- Virtual tripwire, area intrusion, face detection & more
- Wide field of view 2.8mm focal length (6.0/8.0MP)
- Back/highlight compensation & true WDR (120dB)
- 3D digital noise reduction & auto white balance
- IP67 weather rated metal housing for outdoor use
- ONVIF, PSIA and CGI compliance

Record at 4K/Ultra HD Resolution

Edge Recording via MicroSD

Weather & Vandal Resistant

	Specifications		2.0MP Fixed Mini Bullet	6.0MP Fixed Mini Bullet	8.0MP Fixed Mini Bullet
	Ordering Information		**VSIP2MPFBMINIIRV3:** 3.6mm lens	**VSIPE6MPFBMINIIR2.8:** 2.8mm lens, ePoE	**VSIPE8MPFBMINIIR2.8:** 2.8mm lens, ePoE
Camera	Image Sensor		1/2.8" 2.0MP Progressive Scan CMOS	1/2.9" 6.0MP Progressive Scan CMOS	1/2.5" 8.0MP Progressive Scan CMOS
Camera	Effective Pixels		1920 (H) x 1080 (V)	3072 (H) x 2048 (V)	3840 (H) x 2160 (V)
Camera	RAM / ROM		256MB / 32MB	512MB / 32MB	512MB / 32MB
Camera	Min Illumination		0.009 Lux/F2.0 (Color), 0 Lux/F2.0 (IR on)	0.04 Lux/F1.6 (Color), 0 Lux/F1.6 (IR on)	0.06 Lux/F1.6 (Color), 0 Lux/F1.6 (IR on)
Camera	S/N Ratio		> 50dB		
Camera	Infrared System		2 x Infrared LED, 40m range, Auto/manual on/off control		
Lens	Lens / Iris		3.6mm F2.0 Fixed Lens	2.8mm F1.6 Fixed Lens	2.8mm F1.6 Fixed Lens
Lens	Field of View		Horizontal: 87°, Vertical: 48°	Horizontal: 98°, Vertical: 67°	Horizontal: 112°, Vertical: 69°
Lens	Focus		Fixed		
DORI	Detect (25px/m)		55m	69m	69m
DORI	Observe (63px/m)		22m	28m	28m
DORI	Recognise (125px/m)		11m	14m	14m
DORI	Identify (250px/m)		6m	7m	7m
Video	Resolution		1080p (1920 x 1080) to CIF (352 x 288)	6.0MP (3072 x 2048) to CIF (352 x 288)	8.0MP (3840 x 2160) to CIF (352 x 288)
Video	Frame Rate	Main	1080p (1 ~ 50fps)	6.0MP (1 ~ 20fps) / 4.0MP (1 ~ 25fps)	8.0MP (1 ~ 15fps) / 3.0MP (1 ~ 25fps)
Video	Frame Rate	Sub	D1 (1 ~ 50fps)		
Video	Frame Rate	Third	1080p (1~25fps)		
Video	Video Compression		H.265 / H.264	H.265+ / H.265 / H.264+ / H.264	H.265+ / H.265 / H.264+ / H.264
Video	Bit Rate		H.265: 14 ~ 5632Kbps / H.264: 24 ~ 9472Kbps	H.265: 14 ~ 9984Kbps / H.264: 24 ~10240 Kbps	H.265: 14 ~ 9984Kbps / H.264: 24 ~10240 Kbps
Video	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)		
Video	Day/Night		Auto (ICR) / Color / B&W		
Video	Lighting Compensation		BLC / HLC / WDR (120dB)		
Video	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual		
Video	Gain Control		Auto / Manual		
Video	Noise Reduction		3D DNR		
Video	Picture Control		Mirror / Flip (0°, 90°, 180°, 270°)		
IVS	Intelligent Functions		Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared		
Network	Ethernet		RJ-45 (10/100Base-T)		
Network	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP		
Network	Streaming Method		Unicast / Multicast		
Network	Max. User Access		10 Users / 20 Users		
Interface	Video Interface		N/A		
Interface	Audio Interface		N/A		
Interface	Alarm Interface		N/A		
Interface	RS485		N/A		
Interface	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC		
Interface	Interoperability		ONVIF / PSIA / CGI		
Environmental	Power Supply		12VDC / PoE (802.3af) (Class 0)		
Environmental	Power Consumption		<6.5W		
Environmental	Operating Conditions		-30° ~ +60° C / Less than 95% RH		
Environmental	Ingress Protection		IP67		
Environmental	Vandal Resistance		N/A		
Environmental	Housing		Metal		
Environmental	Pan/Tilt/Rotation		Pan: 0° ~360 °; Tilt: 0° ~90°; Rotation: 0° ~360°		
Environmental	Dimensions		180mm x 70mm x 70mm		
Environmental	Net Weight		0.41kg		

	Fixed Mini Bullet Installation		
Application	Diagrams		
Application	Mounting Options		
			
		Junction Box	Pole Mount
		VSBKTA121	VSBKTA121 + VSBKTA152
			Corner Mount
			VSBKTA121 + VSBKTA151

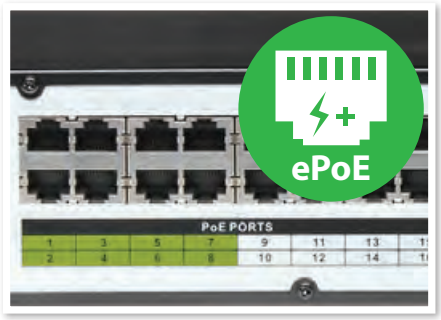
Deliver amazing results.

Professional Series: Fixed lens bullets available in 2.0MP and 6.0MP

These exceptional fixed lens bullet cameras are perfect for just about any application They include a host of features to surpass your average fixed lens camera, including long range infrared, alarm & audio I/O and video analytics.

- Stream up to 6.0MP (3072 x 2048) at 25fps
- H.265 encoding for efficient storage & streaming
- 60m infrared range; true day/night (auto ICR)
- MicroSD slot for recording at the edge up to 128GB
- Virtual tripwire, area intrusion, face detection & more
- Wide field of view 2.8mm focal length (6.0MP)
- Back/highlight compensation & true WDR (120dB)
- 3D digital noise reduction & auto white balance
- IP67/IK10 weather & vandal resistant metal housing
- Extend PoE up to 800m *(requires ePoE NVR/switch)*

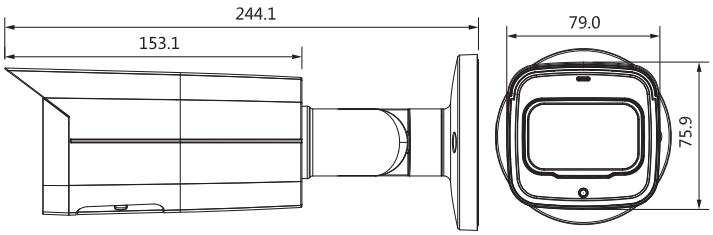
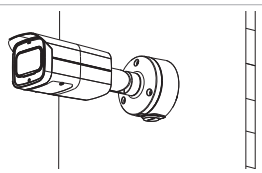
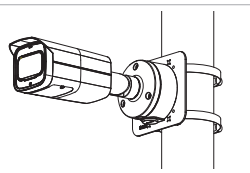
Record at 6.0MP Resolution



Extended PoE Compatibility

Edge Recording via MicroSD

	Specifications		2.0MP Fixed Bullet	6.0MP Fixed Bullet
	Ordering Information		**VSIPE2MPFBMINIIR:** Standard	**VSIPE6MPFBMINIIR:** Standard
Camera	Image Sensor		1/2.8' 2.0MP Progressive Scan CMOS	1/2.9" 6.0MP Starvis™ CMOS
	Effective Pixels		1920 (H) x 1080 (V)	3072 (H) x 2048 (V)
	RAM / ROM		256MB / 32MB	512MB / 32MB
	Min Illumination		0.009 Lux/F2.0 (Color), 0 Lux/F2.0 (IR on)	0.04 Lux/F2.0 (Color), 0 Lux/F2.0 (IR on)
	S/N Ratio		> 50dB	
	Infrared System		4 x Infrared LED, 60m range, Auto/manual on/off control	
Lens	Lens / Iris		3.6mm F1.6 Fixed Lens	2.8mm F1.6 Fixed Lens
	Field of View		Horizontal: 87°, Vertical: 48°	Horizontal: 98°, Vertical: 67°
	Focus		Fixed	
DORI	Detect (25px/m)		55m	69m
	Observe (63px/m)		22m	28m
	Recognise (125px/m)		11m	14m
	Identify (250px/m)		6m	7m
Video	Resolution		1080p (1920 x 1080) to CIF (352 x 288)	6.0MP (3072 x 2048) to CIF (352 x 288)
	Frame Rate	Main	1080p (1 ~ 50fps)	6.0MP (1 ~ 20fps) / 4.0MP (1 ~ 25fps)
		Sub	D1 (1 ~ 50fps)	D1 (1 ~ 25fps)
		Third	1080p (1~25fps)	1080p (1 ~ 25fps)
	Video Compression		H.265 / H.264	
	Bit Rate		H.265: 14 ~ 9984Kbps / H.264: 24 ~ 10240Kbps	H.265: 14 ~ 9984Kbps / H.264: 24 ~ 10240Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)	
	Day/Night		Auto (ICR) / Color / B&W	
	Lighting Compensation		BLC / HLC / WDR (120dB)	
	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual	
	Gain Control		Auto / Manual	
	Noise Reduction		3D DNR	
	Picture Control		Mirror / Flip (0°, 90°, 180°, 270°)	
IVS	Intelligent Functions		Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared	
Network	Ethernet		RJ-45 (10/100Base-T)	
	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP	
	Streaming Method		Unicast / Multicast	
	Max. User Access		10 Users / 20 Users	
Interface	Video Interface		N/A	
	Audio Interface		1 Input, 1 Output / Compression: G.711a, G.711Mu, AAC, G.726	
	Alarm Interface		1 Input / 1 Output	
	RS485		N/A	
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC	
	Interoperability		ONVIF / PSIA / CGI	
Environmental	Power Supply		12VDC / PoE (802.3af) (Class 0)	
	Power Consumption		<11W	
	Operating Conditions		-30° ~ +60° C / Less than 95% RH	
	Ingress Protection		IP67	
	Vandal Resistance		IK10	
	Housing		Metal	
	Pan/Tilt/Rotation		Pan: 0° ~360 °; Tilt: 0° ~90°; Rotation: 0° ~360°	
	Dimensions		244mm x 79mm x 76mm	
	Net Weight		0.82kg	

	Fixed Bullet Installation		
Application	Diagrams		
	Mounting Options		
		Junction Box	Pole Mount
		VSBKTA135	VSBKTA135 + VSBKTA150

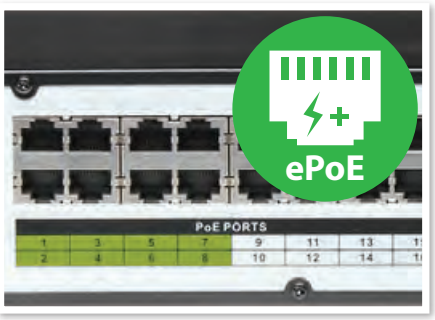
Compact size, big potential.

Professional Series: Fixed lens domes available in 2.0MP, 4.0MP, 6.0MP & 8.0MP

Fixed lens turret style domes that deliver excellent general purpose surveillance indoors and out. Their tri-axis adjustable design enables perfectly framed scenes every time, including in corridor surveillance applications.

- Stream up to 4K/8.0MP (3840 x 2160) at 15fps
- H.265 encoding for efficient storage & streaming
- 50m infrared range; true day/night (auto ICR)
- Built in microphone and microSD slot up to 128GB
- Virtual tripwire, area intrusion, face detection & more
- Range of fixed focal lengths to suit any application
- Back/highlight compensation & true WDR (120dB)
- 3D digital noise reduction & auto white balance
- IP67 weather rated metal housing for outdoor use
- Extend PoE up to 800m *(requires ePoE NVR/switch)*

Record at and Beyond Ultra HD



Extended PoE Compatibility

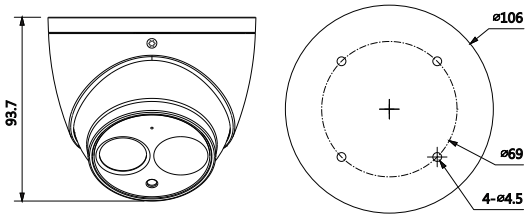
Edge Recording via MicroSD

	Specifications		2.0MP Fixed Mini Domes	4.0MP Fixed Mini Domes	6.0MP Fixed Mini Domes	8.0MP Fixed Mini Domes
	Ordering Information		**VSIPE2MPVDMINIIRCB2.8**: 2.8mm Lens **VSIPE2MPVDMINIIRCB3.6**: 3.6mm Lens	**VSIPE4MPVDMINIIRCB2.8**: 2.8mm Lens **VSIPE4MPVDMINIIRCB3.6**: 3.6mm Lens	**VSIPE6MPVDMINIIRCB2.8**: 2.8mm Lens **VSIPE6MPVDMINIIRCB3.6**: 3.6mm Lens	**VSIPE8MPVDMINIIRC2.8**: 2.8mm Lens
Camera	Image Sensor		1/2.8" 2.0MP Progressive Scan CMOS	1/3" 4.0MP Progressive Scan CMOS	1/2.9" 6.0MP Progressive Scan CMOS	1/2.5" 8.0MP Progressive Scan CMOS
	Effective Pixels		1920 (H) x 1080 (V)	2688 (H) x 1520 (V)	3072 (H) x 2048 (V)	3840 (H) x 2160 (V)
	RAM / ROM		256MB / 32MB	512MB / 32MB	512MB / 32MB	512MB / 32MB
	Min Illumination		0.007 Lux/F2.0 (Color), 0 Lux/F2.0 (IR on)	0.06 Lux/F2.0 (Color), 0 Lux/F2.0 (IR on)	0.04 Lux/F2.0 (Color), 0 Lux/F2.0 (IR on)	0.06 Lux/F1.6 (Color), 0 Lux/F1.6 (IR on)
	S/N Ratio		> 50dB			
	Infrared System		1 x Infrared LED, 50m range, Auto/manual on/off control			
Lens	Lens / Iris		**2.8mm** F1.6 Fixed Lens / **3.6mm** F1.6 Fixed Lens			
	Field of View		**2.8mm:** H: 104°, V: 57° / **3.6mm:** H: 87°, V: 48°	**2.8mm:** H: 104°, V: 57° / **3.6mm:** H: 87°, V: 48°	**2.8mm:** H: 98°, V: 67° / **3.6mm:** H: 69°, V: 48°	**2.8mm:** H: 112°, V: 69°
	Focus		Fixed			
DORI	Detect (25px/m)		**2.8mm:** 43m / **3.6mm:** 55m	**2.8mm:** 56m / **3.6mm:** 80m	**2.8mm:** 69m / **3.6mm:** 89m	**2.8mm:** 69m
	Observe (63px/m)		**2.8mm:** 17m / **3.6mm:** 22m	**2.8mm:** 22m / **3.6mm:** 32m	**2.8mm:** 28m / **3.6mm:** 36m	**2.8mm:**28m
	Recognise (125px/m)		**2.8mm:** 9m / **3.6mm:** 11m	**2.8mm:** 11m / **3.6mm:** 16m	**2.8mm:** 14m / **3.6mm:** 18m	**2.8mm:** 14m
	Identify (250px/m)		**2.8mm:** 4m / **3.6mm:** 6m	**2.8mm:** 6m / **3.6mm:** 8m	**2.8mm:** 7m / **3.6mm:** 9m	**2.8mm:** 7m
Video	Resolution		1080p (1920 x 1080) to CIF (352 x 288)	4.0MP (2688 x 1520) to CIF (352 x 288)	6.0MP (3072 x 2048) to CIF (352 x 288)	8.0MP (3840 x 2160) to CIF (352 x 288)
	Frame Rate	Main	1080p (1 ~ 50fps)	4.0MP (1 ~ 25fps)	6.0MP (1 ~ 20fps) / 4.0MP (1 ~ 25fps)	8.0MP (1 ~ 15fps) / 3.0MP (1 ~ 25fps)
		Sub	D1 (1 ~ 50fps)	D1 (1 ~ 25fps)	D1 (1 ~ 25fps)	D1 (1 ~ 25fps)
		Third	1080p (1 ~ 25fps)	720p (1 ~ 25fps)	1080p (1 ~ 25fps)	1080p (1 ~ 25fps)
	Video Compression		H.265+ / H.265 / H.264+ / H.264			
	Bit Rate		H.265: 14 ~ 9984Kbps / H.264: 24 ~ 10240Kbps			
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)			
	Day/Night		Auto (ICR) / Color / B&W			
	Lighting Compensation		BLC / HLC / WDR (120dB)			
	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual			
	Gain Control		Auto / Manual			
	Noise Reduction		3D DNR			
	Picture Control		Mirror / Flip (0°, 90°, 180°, 270°)			
IVS	Intelligent Functions		Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared			
Network	Ethernet		RJ-45 (10/100Base-T)			
	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP			
	Streaming Method		Unicast / Multicast			
	Max. User Access		10 Users / 20 Users			
Interface	Video Interface		N/A			
	Audio Interface		Built-in Microphone / Compression: G.711a, G.711Mu, AAC, G.726			
	Alarm Interface		N/A			
	RS485		N/A			
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC			
	Interoperability		ONVIF / PSIA / CGI			
Environmental	Power Supply		12VDC / PoE (802.3af) (Class 0)			
	Power Consumption		<5.2W	<5.5W	<6W	<6W
	Operating Conditions		-30° ~ +60° C / Less than 95% RH			
	Ingress Protection		IP67			
	Vandal Resistance		N/A			
	Housing		Metal			
	Pan/Tilt/Rotation		Pan: 0° ~ 360° ; Tilt: 0° ~ 78° ; Rotation: 0° ~ 360°			
	Dimensions		Ø106mm x 94mm			
	Net Weight		0.47kg			

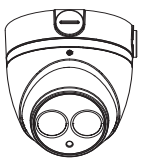
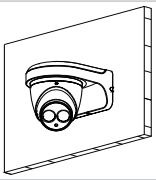
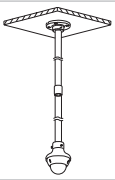
Fixed Dome Installation

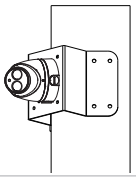
Application

Diagrams



Mounting Options



Junction Box	Wall Mount	Ceiling Extension	Pole Mount	Corner Mount
VSBKTA139 **or** VSBKTA130E	VSBKTB204W	VSBKTA106 + VSBKTB220C	VSBKTB204W + VSBKTA152E	VSBKTA139 + VSBKTA151

Fully featured, built tough.

Professional Series: Fixed lens wedge domes available in 4.0MP

At only 50mm in height, keep every angle covered with this low profile, high resolution IP dome. Install anywhere with a small Ø106mm base, true WDR, edge recording, vandal/weather rated housing, built-in audio and more.

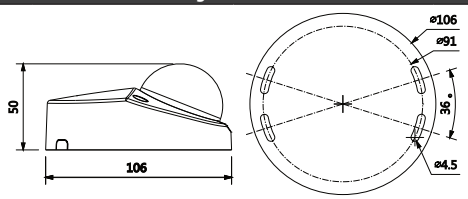
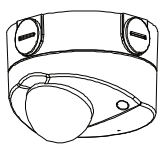
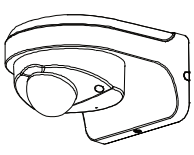
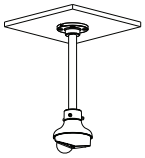
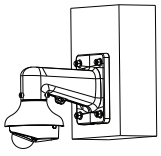
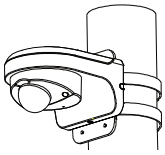
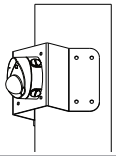
- Stream up to 4.0MP (2688 x 1520) at 25fps
- H.265 encoding for efficient storage & streaming
- 20m infrared range; true day/night (auto ICR)
- Built in microphone and microSD slot up to 128GB
- Compact size, only 50mm height clearance
- Range of fixed focal lengths to suit any application
- Back/highlight compensation & true WDR (120dB)
- 3D digital noise reduction & auto white balance
- IP67/IK10 weather/vandal rated dome housing
- ONVIF, PSIA and CGI compliance

Double Full HD Resolution

Edge Recording via MicroSD

Weather & Vandal Resistant

	Specifications		4.0MP Fixed Wedge Domes
	Ordering Information		**VSIP4MPVDIRF2.8V2**: 2.8mm Lens **VSIP4MPVDIRF3.6V2**: 3.6mm Lens **VSIP4MPVDIRF6.0V2**: 6.0mm Lens
Camera	Image Sensor		1/3" 4.0MP Progressive Scan CMOS
	Effective Pixels		2688 (H) x 1520 (V)
	RAM / ROM		512MB / 32MB
	Min Illumination		0.08 Lux/F2.0 (Color), 0 Lux/F2.0 (IR on)
	S/N Ratio		> 50dB
	Infrared System		10 x Infrared LED, 20m range, Auto/manual on/off control
Lens	Lens / Iris		**2.8mm** F2.0 Fixed Lens / **3.6mm** F2.0 Fixed Lens / **6.0mm** F2.0 Fixed Lens
	Field of View		**2.8mm:** H: 104°, V: 57° / **3.6mm:** H: 87°, V: 48° / **6.0mm:** H: 57°, V: 31°
	Focus		Fixed
DORI	Detect (25px/m)		**2.8mm:** 63m / **3.6mm:** 80m / **6.0mm:** 117m
	Observe (63px/m)		**2.8mm:** 25m / **3.6mm:** 32m / **6.0mm:** 47m
	Recognise (125px/m)		**2.8mm:** 13m / **3.6mm:** 16m / **6.0mm:** 23m
	Identify (250px/m)		**2.8mm:** 6m / **3.6mm:** 8m / **6.0mm:** 12m
Video	Resolution		4.0MP (2688 x 1520) to CIF (352 x 288)
	Frame Rate	Main	4.0MP (1 ~ 25fps)
		Sub	D1 (1 ~ 25fps)
		Third	720p (1 ~ 25fps)
	Video Compression		H.265 / H.264
	Bit Rate		H.265: 14 ~ 9984Kbps / H.264: 24 ~ 10240Kbps
	Bite Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)
	Day/Night		Auto (ICR) / Color / B&W
	Lighting Compensation		BLC / HLC / WDR (120dB)
	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual
	Gain Control		Auto / Manual
	Noise Reduction		3D DNR
	Picture Control		Mirror / Flip (0°, 90°, 180°, 270°)
IVS	Intelligent Functions		Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared
Network	Ethernet		RJ-45 (10/100Base-T)
	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
	Streaming Method		Unicast / Multicast
	Max. User Access		10 Users / 20 Users
Interface	Video Interface		N/A
	Audio Interface		Built-in Microphone / Compression: G.711a, G.711Mu, AAC, G.726
	Alarm Interface		N/A
	RS485		N/A
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC
	Interoperability		ONVIF / PSIA / CGI
Environmental	Power Supply		12VDC / PoE (802.3af) (Class 0)
	Power Consumption		<4.5W
	Operating Conditions		-30° ~ +60° C / Less than 95% RH
	Ingress Protection		IP67
	Vandal Resistance		IK10
	Housing		Metal, Polycarbonate
	Pan/Tilt/Rotation		Pan: 0° ~ 60 ° ; Tilt: 0° ~80° ; Rotation: 0° ~360°
	Dimensions		Ø106mm x 50mm
	Net Weight		0.40kg

	Fixed Wedge Dome Installation					
Application	Diagrams					
	Mounting Options						
		Junction Box	Wall Mount	Ceiling Extension	Wall Mount	Pole Mount	Corner Mount
		VSBKTA139	VSBKTB204W	VSBKTA106 + VSBKTB220C	VSBKTA106 + VSBKTB305W	VSBKTB204W + VSBKTA152	VSBKTA139 + VSBKTA151

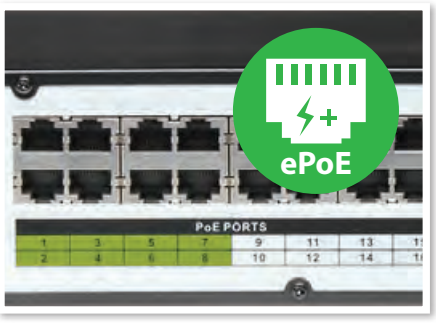
Number one in low light.

Professional Series: Full Colour fixed lens bullets available in 2.0MP

Designed specially for low light applications, VIP Vision Full Colour cameras captures vivid colour footage in the most challenging lighting conditions with their high performance image sensors and large aperture lenses.

- Stream up to Full HD 1080p (1920 x 1080) at 25fps
- Vibrant colour footage in lighting as low as 0.001lux
- H.265 encoding for efficient storage & streaming
- Built in microphone and microSD slot up to 128GB
- Virtual tripwire, area intrusion, face detection & more
- Back/highlight compensation & true WDR (120dB)
- Alarm input/output and built-in microphone
- 3D digital noise reduction & auto white balance
- IP67/IK10 rated weather and vandal resistance
- Extend PoE up to 800m *(requires ePoE NVR/switch)*

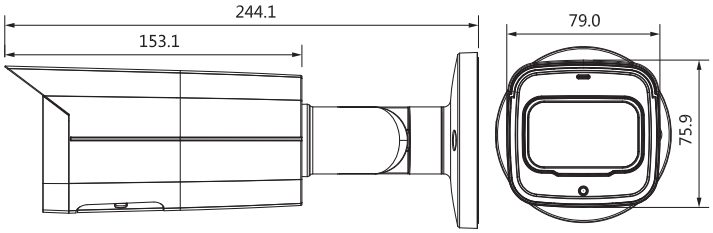
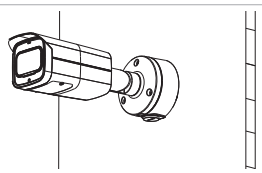
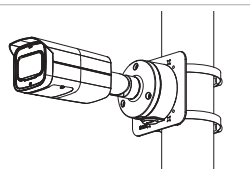
Full Colour Night Recording

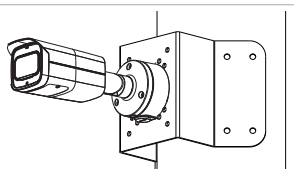


Extended PoE Compatibility

Weather & Vandal Resistant

	Specifications		2.0MP Full-Colour Fixed Bullet
	Ordering Information		**VSIP2MPFBFC**: Standard
Camera	Image Sensor		1/2.8" 2.0MP Progressive Scan CMOS
	Effective Pixels		1920 (H) x 1080 (V)
	RAM / ROM		256MB / 32MB
	Min Illumination		0.001 Lux/F1.0 (Color)
	S/N Ratio		> 50dB
	Infrared System		N/A
Lens	Lens / Iris		3.6mm F1.0 Fixed Lens
	Field of View		H: 87°, V: 54°
	Focus		Fixed
DORI	Detect (25px/m)		53m
	Observe (63px/m)		21m
	Recognise (125px/m)		11m
	Identify (250px/m)		5m
Video	Resolution		1080p (1920 x 1080) to CIF (352 x 288)
	Frame Rate	Main	1080p (1 ~ 25fps)
		Sub	D1 (1 ~ 25fps)
		Third	1080p (1 ~ 25fps)
	Video Compression		H.265+ / H.265 / H.264+ / H.264 / MJPEG
	Bit Rate		H.265: 14 ~ 9984Kbps / H.264: 24 ~ 10240Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)
	Day/Night		Auto (ICR) / Color / B&W
	Lighting Compensation		BLC / HLC / WDR (120dB)
	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual
	Gain Control		Auto / Manual
	Noise Reduction		3D DNR
	Picture Control		Mirror / Flip (0°, 90°, 180°, 270°)
IVS	Intelligent Functions		Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones)
Network	Ethernet		RJ-45 (10/100Base-T)
	Protocol		HTTP; HTTPS; TCP; ARP; RTSP; RTP; RTCP; UDP; PPPOE; IEEE802.1X; SMTP; SNMP; FTP; DHCP; DNS; DDNS; PPPoE; IPV4/V6; QoS; UPnP; NTP; Bonjour; IEEE 802.1X; Multicast; ICMP; IGMP; TLS; SSH; NFS
	Streaming Method		Unicast / Multicast
	Max. User Access		10 Users / 20 Users
Interface	Video Interface		N/A
	Audio Interface		Built-in Microphone / Compression: G.711a, G.711Mu, AAC, G.726
	Alarm Interface		1 Channel In (5mA 5VDC) / 1 Channel Out (300mA 12VDC)
	RS485		N/A
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC
	Interoperability		ONVIF Profile S&G, API
Environmental	Power Supply		12VDC / PoE (802.3af) (Class 0)
	Power Consumption		<4W
	Operating Conditions		-30° ~ +60° C / Less than 95% RH
	Ingress Protection		IP67
	Vandal Resistance		IK10
	Housing		Metal
	Pan/Tilt/Rotation		Pan: 0° ~ 360° ; Tilt: 0° ~ 78° ; Rotation: 0° ~ 360°
	Dimensions		244 x 79 x 76mm
	Net Weight		0.82kg

	Fixed Bullet Installation		
	Diagrams		
Application	Mounting Options		
		Junction Box	Pole Mount
		VSBKTA135	VSBKTA135 + VSBKTA150



Corner Mount
VSBKTA135 + VSBKTA151

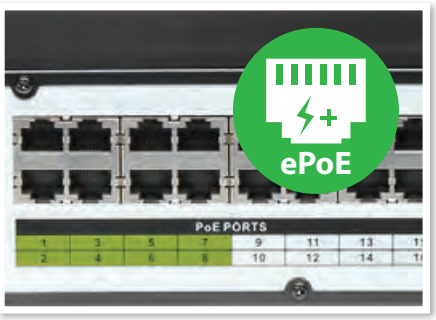
Amazing colour in darkness.

Professional Series: Full Colour fixed lens domes available in 2.0MP

Designed specially for low light applications, VIP Vision Full Colour cameras captures vivid colour footage in the most challenging lighting conditions with their high performance image sensors and large aperture lenses.

- Stream up to Full HD 1080p (1920 x 1080) at 25fps
- Vibrant colour footage in lighting as low as 0.001lux
- H.265 encoding for efficient storage & streaming
- Built in microphone and microSD slot up to 128GB
- Virtual tripwire, area intrusion, face detection & more
- Back/highlight compensation & true WDR (120dB)
- Alarm input/output and built-in microphone
- 3D digital noise reduction & auto white balance
- IP67/IK10 rated weather and vandal resistance
- ePoE for up to 800m transmission *(ePoE NVRs only)*

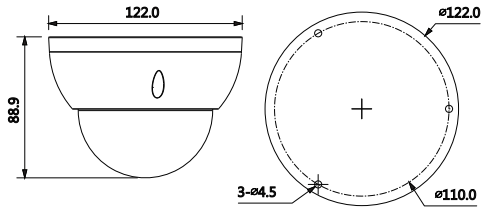
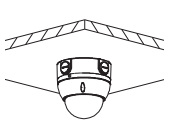
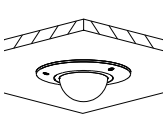
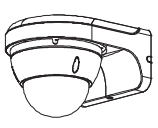
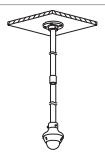
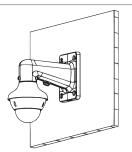
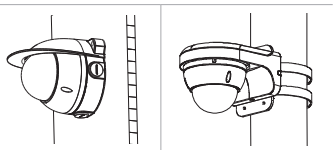
Full Colour Night Recording



Extended PoE Compatibility

Weather & Vandal Resistant

	Specifications		2.0MP Full-Colour Fixed Dome
	Ordering Information		**VSIP2MPVDFC**: Standard
Camera	Image Sensor		1/2.8" 2.0MP Progressive Scan CMOS
	Effective Pixels		1920 (H) x 1080 (V)
	RAM / ROM		256MB / 32MB
	Min Illumination		0.001 Lux/F1.0 (Color)
	S/N Ratio		> 50dB
	Infrared System		N/A
Lens	Lens / Iris		3.6mm F1.0 Fixed Lens
	Field of View		H: 87°, V: 54°
	Focus		Fixed
DORI	Detect (25px/m)		53m
	Observe (63px/m)		21m
	Recognise (125px/m)		11m
	Identify (250px/m)		5m
Video	Resolution		1080p (1920 x 1080) to CIF (352 x 288)
	Frame Rate	Main	1080p (1 ~ 25fps)
		Sub	D1 (1 ~ 25fps)
		Third	1080p (1 ~ 25fps)
	Video Compression		H.265+ / H.265 / H.264+ / H.264 / MJPEG
	Bit Rate		H.265: 14 ~ 9984Kbps / H.264: 24 ~ 10240Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)
	Day/Night		Auto (ICR) / Color / B&W
	Lighting Compensation		BLC / HLC / WDR (120dB)
	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual
	Gain Control		Auto / Manual
	Noise Reduction		3D DNR
	Picture Control		Mirror / Flip (0°, 90°, 180°, 270°)
IVS	Intelligent Functions		Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones)
Network	Ethernet		RJ-45 (10/100Base-T)
	Protocol		HTTP; HTTPS; TCP; ARP; RTSP; RTP; RTCP; UDP; PPPOE; IEEE802.1X; SMTP; SNMP; FTP; DHCP; DNS; DDNS; PPPoE; IPV4/V6; QoS; UPnP; NTP; Bonjour; IEEE 802.1X; Multicast; ICMP; IGMP; TLS; SSH; NFS
	Streaming Method		Unicast / Multicast
	Max. User Access		10 Users / 20 Users
Interface	Video Interface		N/A
	Audio Interface		Built-in Microphone / Compression: G.711a, G.711Mu, AAC, G.726
	Alarm Interface		1 Channel In (5mA 5VDC) / 1 Channel Out (300mA 12VDC)
	RS485		N/A
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC
	Interoperability		ONVIF Profile S&G, API
Environmental	Power Supply		12VDC / PoE (802.3af) (Class 0)
	Power Consumption		<3.7W
	Operating Conditions		-30° ~ +60° C / Less than 95% RH
	Ingress Protection		IP67
	Vandal Resistance		IK10
	Housing		Metal
	Pan/Tilt/Rotation		Pan: 0° ~ 360° ; Tilt: 0° ~ 78° ; Rotation: 0° ~ 360°
	Dimensions		Ø122mm x 89mm
	Net Weight		0.58kg

	Motorised Dome Installation						
Application	Diagrams						
	Mounting Options							
		Junction Box	In-Ceiling Mount	Right Angle Wall Mount	Ceiling Extension	Right Angle Wall Mount	Wall Mount Rain Shield	Pole Mount
		VSBKTA137	VSBKTB200C	VSBKTB203W	VSBKTA106 + VSBKTB220C	VSBKTA106 + VSBKTB305W	VSBKTA200W	VSBKTA152 + VSBKTB203W

PTZ Series
Pan-Tilt-Zoom Cameras

Series Overview

The PTZ series offers incredible pan-tilt-zoom domes with high level functionality for specialist applications.

The series features PTZ cameras in a variety of shapes and sizes to expand the capabilities of your surveillance systems. Create responsive surveillance configurations by combining pan-tilt-zoom presets with virtual tripwire events from another VIP Vision network camera.

Model Reference

SKU	Description
VSIP2MPPTZIRL	2.0MP Laser IR 40x Zoom PTZ Dome
VSIP8MPPTZIRL	8.0MP Laser IR 30x Zoom PTZ Dome
VSIP2MPPTZIRK	2.0MP 48x Zoom PTZ Dome
VSIP2MPPTZIRV2	2.0MP 25x Zoom PTZ Dome
VSIP4MPPTZIR	4.0MP 30x Zoom PTZ Dome
VSIP2MPPTZIRW	2.0MP 25x Zoom PTZ Positioning Camera
VSIP2MPPTZV3	2.0MP 12x Zoom PTZ Dome
VSIP2MPPTZCV3	2.0MP 25x Zoom PTZ Dome (Recessed Mount)
VSIP4MPPTZMINI	4.0MP 4x Zoom Mini PTZ Dome

Stream up to Ultra HD
Capture footage at 4K / Ultra HD with up to 3840 x 2160 resolution.

Incredible View Distance
Monitor from hundreds of meters away with up to 48x lossess optical zoom.

Touring and Tracking
Never miss a thing with preset touring and auto-tracking of moving objects.

Intelligent Video Surveillance
Impressive CCTV features with Tripwire, Intrusion, Face/Motion Detect & more.

Recording at the Edge
Record at the edge & add reliability with microSD storage up to 128GB.

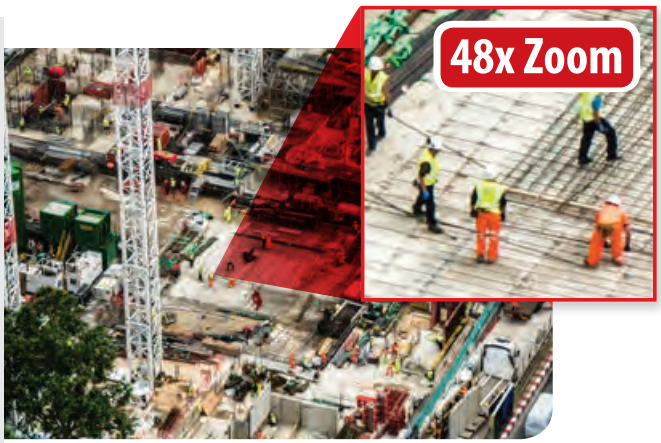
Precision Infrared Systems
Variety of long range LED and laser infrared technology for nightvision.

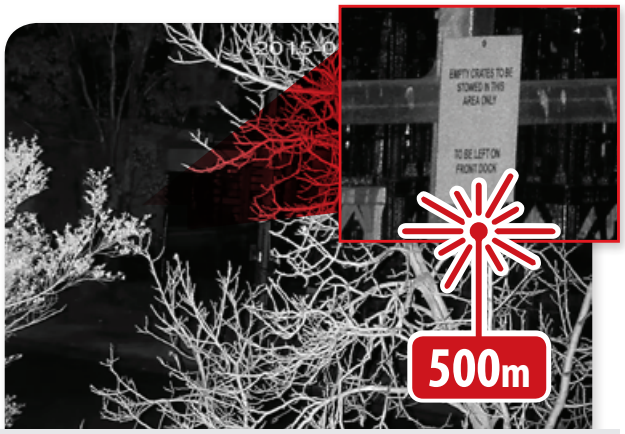
Series Highlights

Unparalleled versatility and control
with powerful optical zoom & up to 4K resolution

PTZ Series cameras boast a number of impressive features to transform your surveillance, making them ideal for security critical applications.

- Stream up to 4K Ultra HD resolution
- Up to an incredible 48x lossless optical zoom
- Identify faces from up to 389m away (250px/m) & detect people from up to 2.7km away (25px/m)





Clear evidence all day & night
with laser infrared & low light colour

Don't compromise detail at night. All cameras in the range (excl. mini PTZs) feature low light colour, with select models featuring powerful IR.

- Ultra low light colour footage as low as 0.001lx
- Precision laser infrared up to an incredible 500m with automatic angle adjustment

Follow objects of interest
with preset tour & auto-tracking

Cover large areas at high detail with tours - setting the camera to pan/tilt/zoom in preset patterns.

- Manually set up adjustable tours or leave it up to the PTZ to auto-pan/scan
- Advanced auto-tracking with PFA (Predictive Focus Algorithm) technology

Peak performance in all conditions
with temperature, weather and vandal resistance

Keep peace of mind that your valuable camera is safe. The PTZ Series is highly resistant to the harshest environments, allowing for installs almost anywhere.

- Operates in extreme temperatures from -40°C to 70°C
- IP66/IP67 weather resistance across the range
- IK10 vandal resistance (certain models)
- Smart wiper clears rain from lens (ZIRL/ZIRK only)

Amazing functionality.

Ultimate PTZ Series: Specialist PTZ domes available in 2.0MP & 8.0MP

An outstanding performer in long range surveillance applications, this formidable 30x optical zoom PTZ is also equipped with 500m laser infrared, a host of intelligent functions and configurable auto-tracking.

- Stream up to 4K/8.0MP (3840 x 2160) at 25fps
- 30x optical zoom lens (61.2 ~ 2.1° viewing angles)
- Auto tracking with 8 intelligent video functions
- Adjustable beam angle laser infrared up to 500m
- Electronic image stabilisation, face detect & more
- Endless 360° panning with tilt adjust; auto-flip 180°
- MicroSD card slot for recording up to 128GB
- Audio and alarm interface input/output
- Supports power via Hi-PoE (IEEE802.3at)
- IP67 weather resistant housing for external use

30x Lossless Optical Zoom

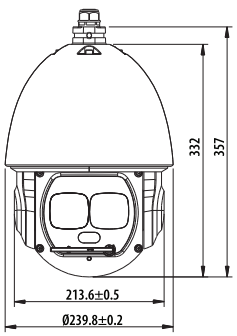
Precision Laser Infrared System

Intelligent Auto Tracking

	Specifications		2.0MP Laser IR PTZ	8.0MP Laser IR PTZ
	Ordering Information		**VSIP2MPPTZIRL:** Standard	**VSIP8MPPTZIRL:** Standard
Camera	Image Sensor		1/1.9" 2.0MP Progressive Scan CMOS	1/1.7" 12.0MP Starvis™ CMOS
	Effective Pixels		1920 (H) x 1080 (V)	3840 (H) x 2160 (V)
	RAM / ROM		1024MB / 64MB	1024MB / 128MB
	Min Illumination		0.002 Lux/F1.5 (Color), 0 Lux/F1.5 (IR on)	0.05 Lux/F1.6 (Color), 0 Lux/F1.6 (IR on)
	S/N Ratio		> 56dB	
	Infrared System		Laser Infrared Module, 500m range, Auto/manual angle adjustment (60 ~ 2°)	
Lens	Lens / Iris		6 ~ 180mm F1.5 ~ F4.3 Motorised Lens with Auto Iris	6 ~ 180mm F1.6 ~ F4.8 Motorised Lens with Auto Iris
	Field of View		Horizontal: 61.2° ~ 2.1° (30x Optical Zoom)	
	Focus		Auto/Manual / 1m Min. Focus Distance	
DORI	Detect (25px/m)		1920m	3892m
	Observe (63px/m)		768m	1557m
	Recognise (125px/m)		384m	778m
	Identify (250px/m)		192m	389m
PTZ	Pan / Tilt Range		Pan: 0 ~ 360° (endless) / Tilt: -20 ~ 90° / Auto-flip 180°	
	PTZ Speed		**Preset**: Pan: 240°/s; Tilt: 200°/s **Manual**: Pan: 200°/s; Tilt: 120°/s	
	Modes / Presets		Up to 300 presets / 5 Pattern, 8 Tour, Auto Pan, Auto Scan	
	Start-up Action		Auto-restore to previous PTZ/lens status	
	Auto Tracking		Support	
Video	Resolution		1080p (1920 x 1080) to CIF(352 x 288)	8.0MP (3840 x 2160) to CIF(352 x 288)
	Frame Rate	Main	1080p (1 ~ 25fps) / 720p (1 ~ 50fps)	8.0MP (1 ~ 25fps) / 1080p (1 ~ 50fps)
		Sub	D1 (1 ~ 25fps)	D1 (1 ~ 25fps)
		Third	1080p (1 ~ 25fps)	1080p (1 ~ 25fps)
	Video Compression		H.264 / MJPEG	H.265 / H.264
	Bit Rate		H.264: 448K ~ 8192Kbps / MJPEG: 4096K ~ 20480Kbps	H.265: 14 ~ 9984Kbps / H.264: 24 ~ 16384Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)	
	Day/Night		Auto (ICR) / Color / B&W	Auto (ICR) / Color / B&W
	Lighting Compensation		BLC / HLC / WDR (120dB)	BLC / HLC / Digital WDR
	White Balance		Auto / ATW / Indoor / Outdoor / Manual	
	Gain Control		Auto / Manual	
	Noise Reduction		Ultra 2D/3D DNR	
	Picture Control		Flip 180°	
IVS	Intelligent Functions		Tripwire, Intrusion, Abandoned/Missing Object, Face Detection, Motion Detection, Region of Interest, Electronic Image Stabilisation, Privacy Masking (24 zones), Defog	
Network	Ethernet		RJ-45 (10/100Base-T)	
	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP	
	Streaming Method		Unicast / Multicast	
	Max. User Access		10 Users / 20 Users	
Interface	Video Interface		1 Output (Vpp 75Ω)	
	Audio Interface		1 Input, 1 Output / Compression: G.711a, G.711mu, G.726, AAC	
	Alarm Interface		7 Inputs / 2 Outputs	
	RS485		Yes	
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC	
	Interoperability		ONVIF / PSIA / CGI	
Environmental	Power Supply		24VAC / 3A / Hi-PoE (IEEE802.3at)	
	Power Consumption		<24W	
	Operating Conditions		-40° ~ +70° C / Less than 90% RH	
	Ingress Protection		IP67	
	Vandal Resistance		N/A	
	Housing		Metal	
	Pan/Tilt/Rotation		Pan: 0° ~ 360 ° ; Tilt: -20° ~ 90° ; Rotation: 0° ~ 360°	
	Dimensions		Ø240mm x 357mm	
	Net Weight		6.75kg	

PTZ Camera Installation

Application — Mounting Options



Included Accessories	Ceiling Mount	Junction Box	Power Box Mount	Pole Mount	Corner Mount	Parapet Mount
AC power supply, VSBKTA111, VSBKTB303W	VSBKTB300C	VSBKTA120	VSBKTA140	VSBKTA150	VSBKTA151	VSBKTB303S

Incredible zoom distance.

Ultimate PTZ Series: Specialist 48x zoom PTZ dome available in 2.0MP

The ultimate long range surveillance solution, this 48x optical zoom PTZ is capable of ultra low light colour footage in minimal lighting conditions, as well as a host of intelligent functions, auto-tracking and long range infrared.

- Stream up to 2.0MP (1920 x 1080) at 50fps
- 48x optical zoom lens (64.55 ~ 1.5° viewing angles)
- Auto tracking with 8 intelligent video functions
- Low light colour performance at 0.001lx; 450m IR
- Electronic image stabilisation, face detect & more
- Endless 360° panning with tilt adjust; auto-flip 180°
- MicroSD card slot for recording up to 128GB
- Audio, alarm and video interface input/output
- Supports power via Hi-PoE (IEEE802.1x)
- IP67 weather resistant housing for external use

48x Lossless Optical Zoom

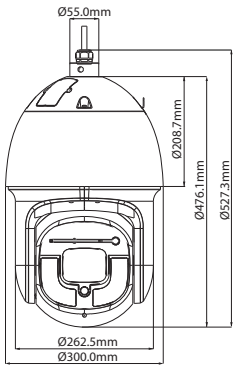
Superb Low Light Performance

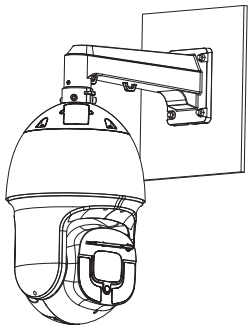
Intelligent Auto Tracking

	Specifications		2.0MP 48x Zoom PTZ
	Ordering Information		**VSIP2MPPTZIRK:** Standard
Camera	Image Sensor		1/1.9" 2.0MP Progressive Scan CMOS
	Effective Pixels		1920 (H) x 1080 (V)
	RAM / ROM		1024MB / 128MB
	Min Illumination		0.001 Lux/F1.4 (Color), 0 Lux/F1.4 (IR on)
	S/N Ratio		> 55dB
	Infrared System		10 x Infrared LED, 450m range, Auto/manual on/off control
Lens	Lens / Iris		5.7 ~ 275mm F1.4 ~ F4.5 Motorised Lens with Auto Iris
	Field of View		Horizontal: 64.5° ~ 1.5° (48x Optical Zoom)
	Focus		Auto/Manual / 1.5m Min. Focus Distance
DORI	Detect (25px/m)		2731m
	Observe (63px/m)		1092m
	Recognise (125px/m)		546m
	Identify (250px/m)		273m
PTZ	Pan / Tilt Range		Pan: 0 ~ 360° (endless) / Tilt: -30 ~ 90° / Auto-flip 180°
	PTZ Speed		**Preset**: Pan: 240°/s; Tilt: 200°/s **Manual**: Pan: 200°/s; Tilt: 120°/s
	Modes / Presets		Up to 300 presets / 5 Pattern, 8 Tour, Auto Pan, Auto Scan
	Start-up Action		Auto-restore to previous PTZ/lens status
	Auto Tracking		Support
Video	Resolution		1080p (1920 x 1080) to CIF(352 x 288)
	Frame Rate	Main	1080p (1 ~ 50fps)
		Sub	D1 (1 ~ 25fps)
		Third	1080p (1 ~ 25fps)
	Video Compression		H.265 / H.264
	Bit Rate		H.265/H.264: 448K ~ 8192Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)
	Day/Night		Auto (ICR) / Color / B&W
	Lighting Compensation		BLC / HLC / WDR (120dB)
	White Balance		Auto / ATW / Indoor / Outdoor / Manual
	Gain Control		Auto / Manual
	Noise Reduction		Ultra 2D/3D DNR
	Picture Control		Flip 180°
IVS	Intelligent Functions		Tripwire, Intrusion, Abandoned/Missing Object, Face Detection, Motion Detection, Region of Interest, Electronic Image Stabilisation, Privacy Masking (24 zones), Defog
Network	Ethernet		RJ-45 (10Base-T/100Base-TX)
	Protocol		IPv4/IPv6; HTTP; HTTPS; SSL; TCP/IP; UDP; UPnP; ICMP; IGMP; SNMP; RTSP; RTP; SMTP; NTP; DHCP; DNS; PPPOE; DDNS; FTP; IP Filter; QoS; Bonjour; 802.1x
	Streaming Method		Unicast / Multicast
	Max. User Access		20 Users
Interface	Video Interface		1 Output (Vpp 75Ω)
	Audio Interface		1 Input, 1 Output / Compression: G.711a/G.711Mu/AAC/G.722 / G.726/MPEG2-L2
	Alarm Interface		7 Inputs / 2 Outputs
	RS485		Yes
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC
	Interoperability		ONVIF / PSIA / CGI
Environmental	Power Supply		24VAC / 5A (±25%) / Hi-PoE (IEEE802.3at)
	Power Consumption		<24W
	Operating Conditions		-40° ~ +70° C / Less than 90% RH
	Ingress Protection		IP67
	Vandal Resistance		N/A
	Housing		Metal
	Pan/Tilt/Rotation		Pan: 0° ~ 360 ° ; Tilt: -30° ~ 90° ; Rotation: 0° ~ 360°
	Dimensions		Ø300mm x 527mm
	Net Weight		13kg

PTZ Camera Installation

Application — Mounting Options





Included Accessories

24VAC power supply, Mount adapter, Right angle bracket

Complete area coverage.

Professional PTZ Series: Versatile PTZ domes available in 2.0MP & 4.0MP

Enjoy an ultra responsive surveillance experience with these professional speed domes. Ideal for large surveillance applications, ensure all areas are covered with up to 30x optical zoom, auto-tracking and fast endless 360° panning.

- Stream up to 4.0MP (2592 x 1520) at 25fps
- H.265 encoding for efficient storage & streaming
- True WDR (120dB) and up to 150m infrared
- MicroSD slot for recording at the edge up to 128GB
- Endless 360° panning and -15° ~ 90° tilt adjustable
- Ultra 2D/3D DNR; auto white balance; true day/night
- Power by PoE+ (802.3at) or 24VAC (PSU included)
- IP66 weather rated, light weight dome housing

Double Full HD Resolution

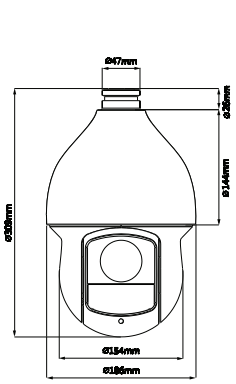
Up to 30x Lossless Optical Zoom

Power via PoE+ (802.3at)

	Specifications		2.0MP 25x Zoom PTZ	4.0MP 30x Zoom PTZ
	Ordering Information		**VSIP2MPPTZIRV2:** Standard	**VSIP4MPPTZIR:** Standard
Camera	Image Sensor		1/2.8" 2.0MP Starvis™ CMOS	1/3" 4.0MP Progressive Scan CMOS
	Effective Pixels		1920 (H) x 1080 (V)	2592 (H) x 1520 (V)
	RAM / ROM		1024MB / 128MB	
	Min Illumination		0.005 Lux/F1.6 (Color), 0 Lux/F1.6 (IR on)	0.05 Lux/F1.6 (Color), 0 Lux/F1.6 (IR on)
	S/N Ratio		> 55dB	
	Infrared System		4 x Infrared LED, 150m range, Auto/manual on/off control	4 x Infrared LED, 100m range, Auto/manual on/off control
Lens	Lens / Iris		4.8 ~ 120mm F1.6 ~ F4.4 Motorised Lens	4.5 ~ 135mm F1.6 ~ F4.4 Motorised Lens
	Field of View		Horizontal: 59.2° ~ 2.4° (25x Optical Zoom)	Horizontal: 60° ~ 2.2° (30x Optical Zoom)
	Focus		Auto/Manual / 1m Min. Focus Distance	
DORI	Detect (25px/m)		1613m	2700m
	Observe (63px/m)		646m	1050m
	Recognise (125px/m)		323m	540m
	Identify (250px/m)		161m	270m
PTZ	Pan / Tilt Range		Pan: 0 ~ 360° (endless) / Tilt: -15 ~ 90° / Auto-flip 180°	
	PTZ Speed		**Preset**: Pan: 400°/s; Tilt: 300°/s **Manual**: Pan: 300°/s; Tilt: 200°/s	
	Modes / Presets		Up to 300 presets / 5 Pattern, 8 Tour, Auto Pan, Auto Scan	
	Start-up Action		Auto-restore to previous PTZ/lens status	
	Auto Tracking		Support	
Video	Resolution		1080p (1920 x 1080) to CIF (352 x 288)	4.0MP (2592 x 1520) to CIF (352 x 288)
	Frame Rate	Main	1080p (1 ~ 50fps)	4.0MP (1 ~ 25fps) / 1080p (1 ~ 50fps)
		Sub	D1 (1 ~ 25fps)	D1 (1 ~ 25fps)
		Third	1080p (1 ~ 25fps)	1080p (1 ~ 25fps)
	Video Compression		H.265 / H.264 / MJPEG	
	Bit Rate		H.265/H.264: 448K ~ 8192Kbps / MJPEG: 5120K ~ 10240Kbps	
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)	
	Day/Night		Auto (ICR) / Color / B&W	
	Lighting Compensation		BLC / HLC / WDR (120dB)	
	White Balance		Auto / ATW / Indoor / Outdoor / Manual	
	Gain Control		Auto / Manual	
	Noise Reduction		Ultra 2D/3D DNR	
	Picture Control		Flip 180°	
IVS	Intelligent Functions		Tripwire, Intrusion, Abandoned/Missing Object, Face Detection, Motion Detection, Region of Interest, Electronic Image Stabilisation, Privacy Masking (24 zones), Defog	
Network	Ethernet		RJ-45 (10/100Base-T)	
	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP	
	Streaming Method		Unicast / Multicast	
	Max. User Access		10 Users / 20 Users	
Interface	Video Interface		N/A	
	Audio Interface		1 Input, 1 Output / Compression: G.711a, G.711mu, G.726, AAC	
	Alarm Interface		2 Inputs / 1 Output	
	RS485		N/A	
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC	
	Interoperability		ONVIF / PSIA / CGI	
Environmental	Power Supply		24VAC/3A / PoE+ (802.3at)	
	Power Consumption		<13W	
	Operating Conditions		-40° ~ +70° C / Less than 90% RH	
	Ingress Protection		IP66	
	Vandal Resistance		N/A	
	Housing		Metal	
	Pan/Tilt/Rotation		Pan: 0° ~ 360 ° ; Tilt: 15° ~ 90° ; Rotation: 0° ~ 360°	
	Dimensions		Ø186mm x 309mm	
	Net Weight		3.5kg	

PTZ Camera Installation

Application — Mounting Options



Included Accessories	Ceiling Mount	Junction Box	Power Box Mount	Pole Mount	Corner Mount	Parapet Mount
AC power supply, VSBKTA110, VSBKTB300S	VSBKTB300C	VSBKTA120	VSBKTA140	VSBKTA150	VSBKTA151	VSBKTB303S

Total coverage, every angle.

Professional PTZ Series: PTZ positioning camera available in 2.0MP

Experience clear large-scale surveillance with this vandal-resistant PTZ camera. Ideal for long distance surveillance, it features up to 25x optical zoom, true WDR (120dB) and ultra low light colour for detailed recording, day & night.

- Stream up to 2.0MP (1920 x 1080) at 50fps
- 25x optical zoom lens (59.2 ~ 2.4° viewing angles)
- Auto tracking with intelligent video functions
- Low light colour performance at 0.005lx; 150m IR
- Electronic image stabilisation, face detect & more
- Endless 360° panning and -90° ~ 90° tilt adjustable
- MicroSD slot for recording at the edge up to 128GB
- Ultra 2D/3D DNR; auto white balance; true day/night
- Power by PoE+ (802.3at) or 24VAC (PSU included)
- IP67/IK10 weather & vandal resistant metal housing

Up to 25x Lossless Optical Zoom

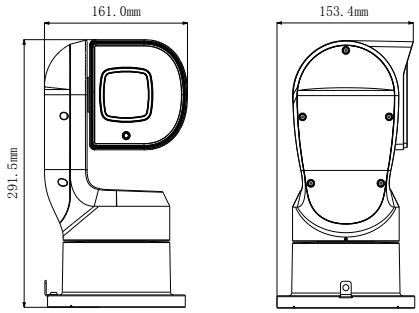
Versatile Pan-Tilt Capability

Intelligent Auto Tracking

	Specifications		2.0MP PTZ Positioning Camera
	Ordering Information		**VSIP2MPPTZIRW:** Standard
Camera	Image Sensor		1/2.8" 2.0MP Starvis™ CMOS
	Effective Pixels		1920 (H) x 1080 (V)
	RAM / ROM		1024MB / 128MB
	Min Illumination		0.005 Lux/F1.6 (Color), 0 Lux/F1.6 (IR on)
	S/N Ratio		> 55dB
	Infrared System		4 x Infrared LED, 150m range, Auto/manual on/off control
Lens	Lens / Iris		4.8 ~ 120mm F1.6 ~ F4.4 Motorised Lens
	Field of View		Horizontal: 59.2° ~ 2.4° (25x Optical Zoom)
	Focus		Auto/Manual / 1.5m Min. Focus Distance
DORI	Detect (25px/m)		1613m
	Observe (63px/m)		646m
	Recognise (125px/m)		323m
	Identify (250px/m)		161m
PTZ	Pan / Tilt Range		Pan: 0 ~ 360° (endless) / Tilt: -90 ~ 90° / Effective Angle: -51° ~ 90° / Auto-flip 180°
	PTZ Speed		**Preset**: Pan: 120°/s; Tilt: 75°/s **Manual**: Pan: 120°/s; Tilt: 75°/s
	Modes / Presets		Up to 300 presets / 5 Pattern, 8 Tour, Auto Pan, Auto Scan
	Start-up Action		Auto-restore to previous PTZ/lens status
	Auto Tracking		Support
Video	Resolution		1080p (1920 x 1080) to CIF (352 x 288)
	Frame Rate	Main	1080p (1 ~ 50fps)
		Sub	D1 (1 ~ 25fps)
		Third	1080p (1 ~ 25fps)
	Video Compression		H.265 / H.264
	Bit Rate		H.265/H.264: 448K ~ 8192Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)
	Day/Night		Auto (ICR) / Color / B&W
	Lighting Compensation		BLC / HLC / WDR (120dB)
	White Balance		Auto / ATW / Indoor / Outdoor / Manual
	Gain Control		Auto / Manual
	Noise Reduction		Ultra 2D/3D DNR
	Picture Control		Flip 180°
IVS	Intelligent Functions		Tripwire, Intrusion, Abandoned/Missing Object, Face Detection, Motion Detection, Heat Map, Region of Interest, Electronic Image Stabilisation, Privacy Masking (24 zones), Defog
Network	Ethernet		RJ-45 (10/100Base-T)
	Protocol		IPv4/IPv6; HTTP; HTTPS; SSL; TCP/IP; UDP; UPnP; ICMP; IGMP; SNMP; RTSP; RTP; SMTP; NTP; DHCP; DNS; PPPOE; DDNS; FTP; IP Filter; QoS; Bonjour; 802.1x
	Streaming Method		Unicast / Multicast
	Max. User Access		10 Users / 20 Users
Interface	Video Interface		N/A
	Audio Interface		1 Input, 1 Output / Compression: G.711a, G.711Mu, AAC, G.722, G.726, G.729, MPEG2-L2
	Alarm Interface		2 Inputs / 1 Output
	RS485		N/A
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC
	Interoperability		ONVIF / PSIA / CGI
Environmental	Power Supply		12VDC/4A / PoE+ (802.3at)
	Power Consumption		<22W
	Operating Conditions		-40° ~ +70° C / Less than 95% RH
	Ingress Protection		IP67
	Vandal Resistance		IK10
	Housing		Metal
	Pan/Tilt/Rotation		Pan: 0° ~ 360 ° ; Tilt: 15° ~ 90° ; Rotation: 0° ~ 360°
	Dimensions		Ø291.5mm x 161mm x 153.4mm
	Net Weight		3.6kg

PTZ Positioning Camera Installation

Application — Mounting Options



Included Accessories: Junction box & AC power supply

Wall Mount: VSBKTB730W

Compact and powerful.

Professional PTZ Series: Vandal resistant, compact PTZ available in 2.0MP

This IP PTZ dome offers the image control and versatility of 12x optical zoom, with the flexibility of a small form factor camera housing. Enjoy PTZ flexibility and easy ceiling surface-mount installation, with no brackets required.

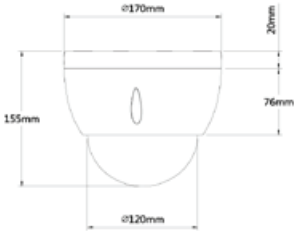
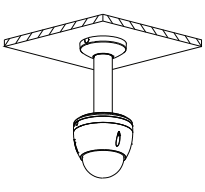
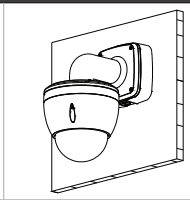
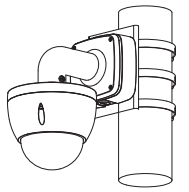
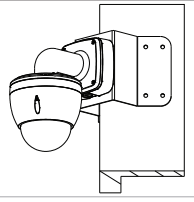
- Stream up to Full HD/2.0MP (1920 x 1080) at 25fps
- 12x optical zoom lens (58 ~ 5° viewing angles)
- True WDR (120dB) & back/highlight compensation
- Endless 360° panning and -2° ~ 90° tilt adjustable
- Ultra low light colour performance at 0.005lx
- Compact footprint and profile for easy mounting
- MicroSD slot for recording at the edge up to 128GB
- Face detect & intelligent video analytic functions
- IP66/IK10 weather/vandal rated housing
- Power by PoE+ (802.3at) or 24VAC

12x Lossless Optical Zoom

Power via PoE+ (802.3at)

Edge Recording via MicroSD

	Specifications		2.0MP PTZ Dome
	Ordering Information		**VSIP2MPPTZV3:** Standard
Camera	Image Sensor		1/2.8" 2.0MP Starvis™ CMOS
	Effective Pixels		1920 (H) x 1080 (V)
	RAM / ROM		1024MB / 128MB
	Min Illumination		0.005 Lux/F1.6 (Color), 0.0005 Lux/F1.6 (B/W)
	S/N Ratio		> 55dB
	Infrared System		N/A
Lens	Lens / Iris		5.3 ~ 64mm F1.6 ~ F4.4 Motorised Lens
	Field of View		Horizontal: 58° ~ 5° (12x Optical Zoom)
	Focus		Auto/Manual / 1m Min. Focus Distance
DORI	Detect (25px/m)		883m
	Observe (63px/m)		353m
	Recognise (125px/m)		177m
	Identify (250px/m)		88m
PTZ	Pan / Tilt Range		Pan: 0° ~ 360° (endless) / Tilt: -2° ~ 90° / Auto-flip 180°
	PTZ Speed		**Preset**: Pan: 300°/s; Tilt: 200°/s **Manual**: Pan: 300°/s; Tilt: 120°/s
	Modes / Presets		Up to 300 presets / 5 Pattern, 8 Tour, Auto Pan, Auto Scan
	Start-up Action		Auto-restore to previous PTZ/lens status
	Auto Tracking		N/A
Video	Resolution		1080p (1920 x 1080) to CIF (352 x 288)
	Frame Rate	Main	1080p (1 ~ 25fps)
		Sub	D1 (1 ~ 25fps)
		Third	720p (1 ~ 25fps)
	Video Compression		H.265 / H.264
	Bit Rate		H.265/H.264: 448 ~ 8192Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)
	Day/Night		Auto (ICR) / Color / B&W
	Lighting Compensation		BLC / HLC / WDR (120dB)
	White Balance		Auto / ATW / Indoor / Outdoor / Manual
	Gain Control		Auto / Manual
	Noise Reduction		Ultra 2D/3D DNR
	Picture Control		Flip 180°
IVS	Intelligent Functions		Tripwire, Intrusion, Abandoned/Missing Object, Face Detection, Motion Detection, Region of Interest, Privacy Masking (24 zones), Defog
Network	Ethernet		RJ-45 (10Base-T/100Base-TX)
	Protocol		IPv4/IPv6; HTTP; HTTPS; SSL; TCP/IP; UDP; UPnP; ICMP; IGMP; SNMP; RTSP; RTP; SMTP; NTP; DHCP; DNS; PPPOE; DDNS; FTP; IP Filter; QoS; Bonjour; 802.1x
	Streaming Method		Unicast / Multicast
	Max. User Access		10 / 20 Users
Interface	Video Interface		N/A
	Audio Interface		1 Input, 1 Output / Compression: G.711a, G.711mu, G.726, AAC
	Alarm Interface		2 Inputs / 1 Output
	RS485		N/A
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC
	Interoperability		ONVIF / PSIA / CGI
Environmental	Power Supply		24VAC/1.5A / PoE+ (802.3at)
	Power Consumption		<12W
	Operating Conditions		-30° ~ +60° C / Less than 95% RH
	Ingress Protection		IP66
	Vandal Resistance		IK10
	Housing		Metal
	Pan/Tilt/Rotation		Pan: 0° ~360 ° ; Tilt: -2° ~ 90° ; Rotation: 0° ~ 360°
	Dimensions		Ø170mm x 155mm
	Net Weight		1.8kg

	PTZ Dome Installation				
Application	Mounting Options					
			Hanging Mount	Wall Mount	Pole Mount	Corner Mount
			VSBKTA102 + VSBKTB300C	VSBKTA102 + VSBKTB302S	VSBKTA102 + VSBKTB302S + VSBKTA150	VSBKTA102 + VSBKTB302S + VSBKTA151

High mobility PTZ solution.

Professional PTZ Series: Ceiling-recessed speed dome available in 2.0MP

This ceiling-recessed mount network PTZ dome delivers lightning fast PTZ mobility and auto-tracking in a vandal resistant body. It is ideal for indoor, time critical applications such as in banks, retail, in gaming and more.

- Stream up to Full HD 1080p (1920 x 1080) at 50fps
- Super responsive 500°/second pan and tilt speed
- True WDR (120dB) and low light colour at 0.005lx
- MicroSD slot for recording at the edge up to 128GB
- Endless 360° panning and 0° ~ 90° tilt adjustable
- Face detection & intelligent video analytic functions
- Auto-tracking, alarm I/O and audio I/O support
- IK10 vandal rated recessed ceiling mount housing

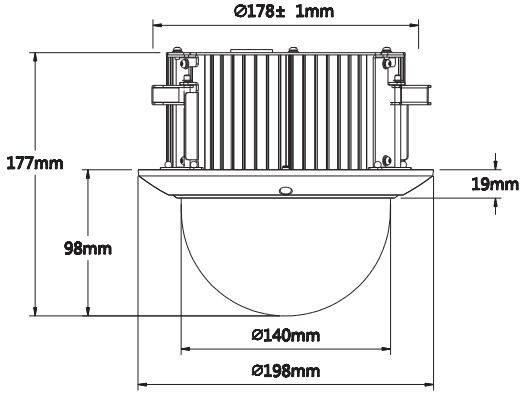
Up to 30x Lossless Optical Zoom

Superb Low Light Performance

Power via PoE+ (802.3at)

	Specifications		2.0MP Recessed PTZ Dome
	Ordering Information		**VSIP2MPPTZCV3:** Standard
Camera	Image Sensor		1/2.8" 2.0MP Progressive Scan CMOS
	Effective Pixels		1920 (H) x 1080 (V)
	RAM / ROM		1024MB / 128MB
	Min Illumination		0.005 Lux/F1.6 (Color), 0.0005 Lux/F1.6 (B/W)
	S/N Ratio		> 55dB
	Infrared System		N/A
Lens	Lens / Iris		4.8 ~ 120mm F1.6 ~ F4.4 Motorised Lens
	Field of View		Horizontal: 59.2° ~ 2.4° (25x Optical Zoom)
	Focus		Auto/Manual / 1m Min. Focus Distance
DORI	Detect (25px/m)		1613m
	Observe (63px/m)		646m
	Recognise (125px/m)		323m
	Identify (250px/m)		161m
PTZ	Pan / Tilt Range		Pan: 0° ~ 360° (endless) / Tilt: 0° ~ 90° / Auto-flip 180°
	PTZ Speed		**Preset**: Pan: 500°/s; Tilt: 500°/s **Manual**: Pan: 350°/s; Tilt: 250°/s
	Modes / Presets		Up to 300 presets / 5 Pattern, 8 Tour, Auto Pan, Auto Scan
	Start-up Action		Auto-restore to previous PTZ/lens status
	Auto Tracking		Support
Video	Resolution		1080p (1920 x 1080) to CIF (352 x 288)
	Frame Rate	Main	1080p (1 ~ 50fps)
		Sub	D1 (1 ~ 25fps)
		Third	1080p (1 ~ 25fps)
	Video Compression		H.265 / H.264 / MJPEG
	Bit Rate		H.265/H.264: 448 ~ 8192Kbps / MJPEG: 5120 ~ 10240Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)
	Day/Night		Auto (ICR) / Color / B&W
	Lighting Compensation		BLC / HLC / WDR (120dB)
	White Balance		Auto / ATW / Indoor / Outdoor / Manual
	Gain Control		Auto / Manual
	Noise Reduction		Ultra DNR 2D/3D
	Picture Control		Flip 180°
IVS	Intelligent Functions		Tripwire, Intrusion, Abandoned/Missing Object, Face Detection, Motion Detection, Region of Interest, Privacy Masking (24 zones), Defog
Network	Ethernet		RJ-45 (10/100Base-T)
	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
	Streaming Method		Unicast / Multicast
	Max. User Access		10 Users / 20 Users
Interface	Video Interface		N/A
	Audio Interface		1 Input, 1 Output / Compression: G.711a, G.711mu, G.726, AAC
	Alarm Interface		2 Inputs / 1 Output
	RS485		N/A
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC
	Interoperability		ONVIF / PSIA / CGI
Environmental	Power Supply		24VDC/1.5A / PoE+ (802.3at)
	Power Consumption		<13W
	Operating Conditions		-30° ~ +60° C / Less than 90% RH
	Ingress Protection		N/A
	Vandal Resistance		IK10
	Housing		Metal
	Pan/Tilt/Rotation		Pan: 0° ~ 360 ° ; Tilt: 0° ~ 90° ; Rotation: 0° ~ 360°
	Dimensions		Ø198mm x 177mm
	Net Weight		2.20kg

	Recessed PTZ Dome Installation
Application	Diagrams



Discreet PTZ functionality.

Professional PTZ Series: Mini PTZ dome available in 4.0MP

No larger than a standard fixed lens dome, this miniature network PTZ dome offers incredible functionality for its size. Deliver a compact PTZ solution, with 4x optical zoom, 355° panning and 90° tilt, in a small footprint dome.

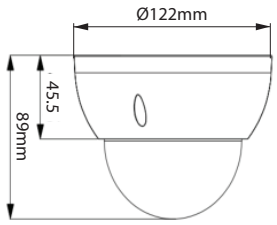
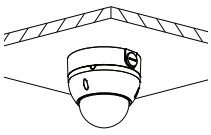
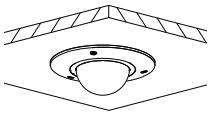
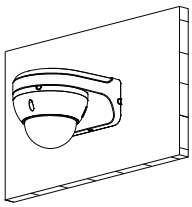
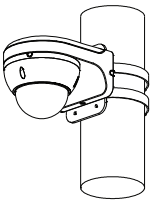
- Stream up to 4.0MP (2592 x 1520) at 25fps
- Compact footprint and profile for easy mounting
- WDR (120dB) & back/highlight compensation
- MicroSD slot for recording at the edge up to 128GB
- 355° panning and 0° ~ 90° tilt adjustable
- Face detection & intelligent video analytic functions
- 3D digital noise reduction & auto white balance
- IP66/IK10 weather/vandal rated housing

Up to 4x Lossless Optical Zoom

Small Footprint Mini PTZ Dome

Vandal & Weather Resistant

	Specifications		4.0MP Mini PTZ Dome
	Ordering Information		**VSIP4MPPTZMINI:** Standard
Camera	Image Sensor		1/3" 4.0MP Progressive Scan CMOS
	Effective Pixels		2592 (H) x 1520 (V)
	RAM / ROM		256MB / 128MB
	Min Illumination		0.05 Lux/F1.6 (Color), 0.005 Lux/F1.6 (B/W)
	S/N Ratio		> 50dB
	Infrared System		N/A
Lens	Lens / Iris		2.7 ~ 11mm F1.6 ~ F2.8 Motorised Lens
	Field of View		Horizontal: 112.5° ~ 30° (4x Optical Zoom)
	Focus		Auto/Manual / 1m Min. Focus Distance
DORI	Detect (25px/m)		180m
	Observe (63px/m)		72m
	Recognise (125px/m)		36m
	Identify (250px/m)		18m
PTZ	Pan / Tilt Range		Pan: 0° ~ 355° / Tilt: 0° ~ 90° / Auto-flip 180°
	PTZ Speed		**Preset**: Pan: 100°/s; Tilt: 60°/s **Manual**: Pan: 100°/s; Tilt: 60°/s
	Modes / Presets		Up to 300 presets / 5 Pattern, 8 Tour, Auto Pan, Auto Scan
	Start-up Action		Auto-restore to previous PTZ/lens status
	Auto Tracking		N/A
Video	Resolution		4.0MP (2592 x 1520) to CIF (352 x 288)
	Frame Rate	Main	4.0MP (1~25fps)
		Sub	D1 (1 ~ 25fps)
		Third	720p (1 ~ 25fps)
	Video Compression		H.265 / H.264 / MJPEG
	Bit Rate		H.265/H.264: 448 ~ 8192Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)
	Day/Night		Auto (ICR) / Color / B&W
	Lighting Compensation		BLC / HLC / WDR (120dB)
	White Balance		Auto / ATW / Indoor / Outdoor / Manual
	Gain Control		Auto / Manual
	Noise Reduction		Ultra 2D/3D DNR
	Picture Control		Flip 180°
IVS	Intelligent Functions		Tripwire, Intrusion, Abandoned/Missing Object, Face Detection, Motion Detection, Region of Interest, Privacy Masking (24 zones), Defog
Network	Ethernet		RJ-45 (10Base-T/100Base-TX)
	Protocol		IPv4/IPv6; HTTP; HTTPS; SSL; TCP/IP; UDP; UPnP; ICMP; IGMP; SNMP; RTSP; RTP; SMTP; NTP; DHCP; DNS; PPPOE; DDNS; FTP; IP Filter; QoS; Bonjour; 802.1x
	Streaming Method		Unicast / Multicast
	Max. User Access		10 Users / 20 Users
Interface	Video Interface		N/A
	Audio Interface		N/A
	Alarm Interface		N/A
	RS485		N/A
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC
	Interoperability		ONVIF / PSIA / CGI
Environmental	Power Supply		12VDC/1.5A / PoE (802.3af)
	Power Consumption		<10W
	Operating Conditions		-30° ~ +60° C / Less than 90% RH
	Ingress Protection		IP66
	Vandal Resistance		IK10
	Housing		Metal
	Pan/Tilt/Rotation		Pan: 0° ~ 355 ° ; Tilt: 0° ~ 90° ; Rotation: 0° ~ 360°
	Dimensions		Ø122mm x 89mm
	Net Weight		0.66kg

	PTZ Dome Installation				
Application	Mounting Options					
			Junction Box	Flush Mount	Wall Mount	Pole Mount
			VSBKTA137	VSBKTA200C	VSBKTB203W	VSBKTB203W + VSBKTA152E

Specialist Series
360°, 180°, Thermal and Solar

Series Overview

When standard cameras are not the solution, find the exact camera for the job with the Specialist Series from VIP Vision.

Model Reference

SKU	Description
VSIP12MPFEIRV2	12.0MP 360° Fisheye Dome
VSIP5MPFEV2	5.0MP 360° Fisheye Dome
VSIP6MPPA	6.0MP 180° Panorama Bullet
VSIP8MPPAV2	8.0MP 180° Panorama Bullet
VSIP8MPPADV2	8.0MP 180° Panorama Dome
VSIP2MPPH	2.0MP Fixed Pinhole Camera + Console
VSIP4MPPHC	4.0MP Fixed Pinhole Camera
VSIP4MPPHM	4.0MP Fixed Pinhole Console
VSPINHOLE3.6	1.0MP Fixed WDR Standalone Pinhole Camera
VSIPTC2MPFB	2.0MP Hybrid Visible/Thermal Bullet Camera
SLR-A75-4G	Solar CCTV Surveillance with 4G
SLR-A75-4W	Solar CCTV Surveillance with WiFi

Stream up to 12.0MP
Capture footage at beyond Ultra HD with up to 4000 x 3000 resolution.

Clear Footage at All Hours
Low light colour, infrared and True WDR for day & night (select models).

Power over Ethernet
Utilise Power over Ethernet with a maximum range of 100m.

Intelligent Video Systems
CCTV features with Tripwire, Intrusion, Face/Motion Detect & more (excl. pinhole)

Recording at the Edge
Record at the edge & add reliability with microSD storage up to 128GB.

High Efficient Video Coding
Advanced H.265 encoding saves up to 50% on bandwidth and storage.

Series Highlights

Deliver the best solution for any job
with specialised systems for a variety of applications

Cater to specific applications with a wide range of unique surveillance models in the Specialist Series from VIP Vision.

- Cover all blind spots with 360° fisheye cameras
- Monitor large areas with 180° panoramic cameras
- Compact vehicle/ATM CCTV with pinhole cameras
- Thermal CCTV for the best in perimeter protection
- High resolution off-grid solar surveillance

Cover whole rooms in one camera
with 360° fisheye domes up to 12.0MP

Eliminate blind spots in your CCTV systems with the Fisheye Series, covering entire rooms with a 360° FOV from above & live image dewarping for clearer images.

- Stream beyond Ultra HD up to 12.0MP at 25fps
- Ultra low light colour at 0.001lx *(12.0MP only)*
- Get a clear image with five dewarp modes
- Weather & vandal resistant design

Ultra-wide surveillance coverage
with 180° FOV panoramic cameras

Panoramic cameras stitches multiple lens images together to form a single panoramic image, performing the duty of multiple cameras in one.

- 4 x lens array combined into a single, wide image
- 6 x infrared lens for wide night surveillance
- IVS with People Counting, Heat Map & E-PTZ

Discreet, compact surveillance
with pinhole cameras in box & bullet styles

These small cameras deliver impressive image quality for their size, and can be easily installed almost anywhere for discreet surveillance.

- Stream up to 4.0MP with back/highlight comp.
- Tiny profile with flush & surface mount options
- Ideal for store shelves, ATMs, vehicles & more

Multiple cameras in one.

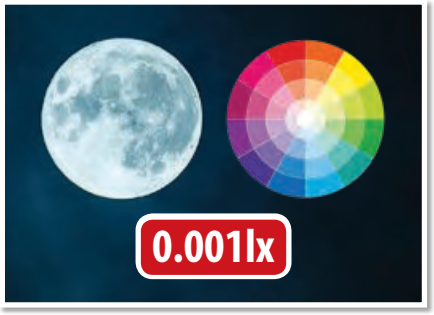
Fisheye Series: 360° view infrared domes available in 12.0MP

Designed to perform the duties of multiple cameras, the Fisheye series transforms your surveillance experience. Cover all points of interest with one camera using a variety of dewarp modes for ceiling, floor and wall mounts.

- Stream up to 12.0MP (4000 x 3000) at 15fps
- Circular fisheye lens with 360° viewing angle
- Dewarp modes* for ceiling, floor & wall mounting
- Virtual PTZ, panorama, & camera split dewarp modes
- 10m range 360° infrared & auto ICR day/night
- MicroSD card slot for edge recording up to 128GB
- Audio and alarm interface input/outputs
- Backlight/highlight compensation & digital WDR
- IP67 weather & IK10 vandal resistant housing

* *Fisheye dewarp compatible with select NVRs only*

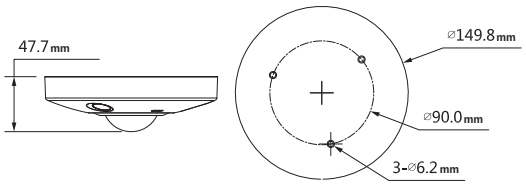
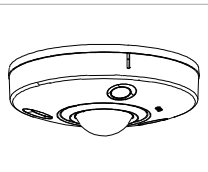
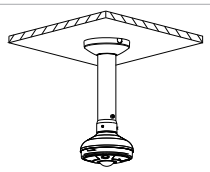
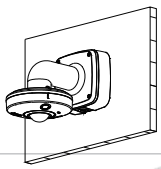
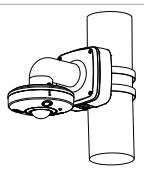
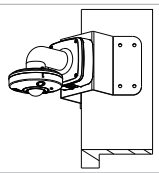
Fisheye Image Dewarp Modes



Superb Low Light Performance

Weather & Vandal Resistant

	Specifications		12.0MP Fisheye Dome
	Ordering Information		**VSIP12MPFEIRV2:** Standard
Camera	Image Sensor		1/1.7" 12.0MP Progressive Scan CMOS
	Effective Pixels		4000 (H) x 3000 (V)
	RAM / ROM		1024MB / 128MB
	Min. Illumination		Colour: 0.001 Lux (F2.8, 1/3s) / 0.01 Lux (F2.8, 1/30s)
	S/N Ratio		> 50dB
	Infrared System		3 x Infrared LED, 10m range, Auto/Manual on/off control
Lens	Lens / Iris		1.98mm F2.8 Fixed Circular Fisheye Lens
	Field of View		Horizontal: 180°, Vertical: 180°
	Focus		Fixed
DORI	Detect (25px/m)		42m
	Observe (63px/m)		17m
	Recognise (125px/m)		8m
	Identify (250px/m)		4m
Video	Resolution		12.0MP (4000 x 3000) to CIF (352 x 288)
	Frame Rate	Main	12.0MP (1 ~ 25fps)
		Sub	D1 (1 ~ 25fps)
		Third	1.3MP (1 ~ 25fps)
	Video Compression		H.265 / H.264
	Bit Rate		H.265: 3 ~ 9984Kbps / H.264: 8 ~ 16384Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)
	Day/Night		Auto (ICR) / Color / B&W
	Lighting Compensation		BLC / HLC / Digital WDR
	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual
	Gain Control		Auto / Manual
	Noise Reduction		3D DNR
	Dewarping Modes		Original (no dewarp) / Panoramic / Double Panoramic / Virtual PTZ / Original + 3 split, + 4 split, + 8 split
IVS	Intelligent Functions		Face Detection, Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared, Defog
Network	Ethernet		RJ-45 (100/1000Base-T)
	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP
	Streaming Method		Unicast / Multicast
	Max. User Access		10 Users / 20 Users
Interface	Video Interface		N/A
	Audio Interface		1 Input, 1 Output / Compression: G.711a, G.711mu, G.726, AAC
	Alarm Interface		2 Inputs / 2 Output
	RS485		N/A
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC
	Interoperability		ONVIF / PSIA / CGI
Environmental	Power Supply		12VDC / PoE (802.3af)
	Power Consumption		<12W
	Operating Conditions		-30° ~ +60° C / Less than 95% RH
	Ingress Protection		IP67
	Vandal Resistance		IK10
	Housing		Metal
	Pan/Tilt/Rotation		N/A
	Dimensions		Ø150mm x 51mm
	Net Weight		0.58kg

	Fisheye Dome Installation				
Application	Diagrams				
	Mounting Options					
		Junction Box	Ceiling Mount	Wall Mount	Pole Mount	Corner Mount
		VSBKTA120	VSBKTB300C + VSBKTA110 + VSBKTA105	VSBKTB302S + VSBKTA100	[VSBKTA110 + VSBKTA105] **or** VSBKTA100 + VSBKTA152 + VSBKTB302S	[VSBKTA110 + VSBKTA105] **or** VSBKTA100 + VSBKTA151 + VSBKTB302S

Have every angle covered.

Fisheye Series: 360° view, electronic day/night dome available in 5.0MP

Designed to perform the duties of multiple cameras, the Fisheye series transforms your surveillance experience. This compact dome camera grants the benefit of 360° field of view, in a compact weather & vandal resistant package.

- Stream up to 5.0MP (2560 x 1920) at 25ps
- Circular fisheye lens with 360° viewing angle
- Dewarp modes* for ceiling, floor & wall mounting
- Virtual PTZ, panorama, & camera split dewarp modes
- Intelligent video functions, including motion detection
- Auto digital day/night & 3D digital noise reduction
- True WDR (120dB) & back/highlight compensation
- MicroSD card slot for edge recording up to 128GB
- IP67/IK08 weather/vandal resistant housing

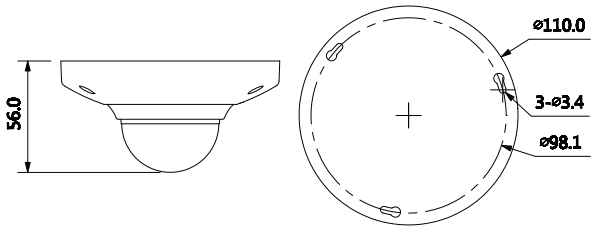
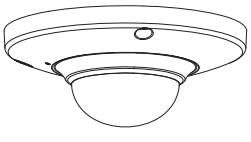
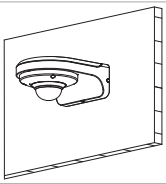
* *Fisheye dewarp compatible with select NVRs only*

Fisheye Image Dewarp Modes

Intelligent Video Functions

Weather & Vandal Resistant

	Specifications		5.0MP Fisheye Dome
	Ordering Information		**VSIP5MPFEV2:** Standard
Camera	Image Sensor		1/2.7" 5.0MP Progressive Scan CMOS
	Effective Pixels		2592 (H) x 1944 (V)
	RAM / ROM		512MB / 32MB
	Min. Illumination		Colour: 0.02 Lux (F1.6), 0.05 Lux/F1.6 (B/W)
	S/N Ratio		> 50dB
	Infrared System		N/A
Lens	Lens / Iris		1.4mm F1.6 Fixed Circular Fisheye Lens
	Field of View		Horizontal: 180°, Vertical: 180°
	Focus		Fixed
DORI	Detect (25px/m)		28m
	Observe (63px/m)		11m
	Recognise (125px/m)		6m
	Identify (250px/m)		3m
Video	Resolution		5.0MP (2560 x 1920) to CIF (352 x 288)
	Frame Rate	Main	5.0MP (1~25fps)
		Sub	D1 (1 ~ 25fps)
	Video Compression		H.265+ / H.265 / H.264+ / H.264
	Bit Rate		H.265: 24 ~ 10240Kbps / H.264: 14 ~ 8192Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)
	Day/Night		Auto (Electronic) / Color / B&W
	Lighting Compensation		BLC / HLC / True WDR (120dB)
	White Balance		Auto / Manual
	Gain Control		Auto / Manual
	Noise Reduction		3D DNR
	Dewarping Modes		Original / 360° Panorama / Dual 180° Panorama / Overview + 3 Views / Quad View / Virtual PTZ
IVS	Intelligent Functions		Tripwire, Intrusion, Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared, Defog, Heat Map
Network	Ethernet		RJ-45 (10/100Base-T)
	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
	Streaming Method		Unicast / Multicast
	Max. User Access		20 Users
Interface	Video Interface		N/A
	Audio Interface		1 Input (Built-in microphone), 1 Output / Compression: G.711a/G.711Mu/AAC/G.726
	Alarm Interface		N/A
	RS485		N/A
	Edge Storage		MicroSD Card (up to 128GB)
	Interoperability		ONVIF / PSIA / CGI
Environmental	Power Supply		12VDC / PoE (802.3af)
	Power Consumption		<3.4W
	Operating Conditions		-30° ~ +60° C / Less than 95% RH
	Ingress Protection		IP67
	Vandal Resistance		IK08
	Housing		Metal
	Pan/Tilt/Rotation		N/A
	Dimensions		Ø110mm x 56mm
	Net Weight		0.38kg

	Fisheye Dome Installation		
Application	Diagrams		
	Mounting Options		
		Junction Box	Ceiling Mount
		VSBKTA120	VSBKTB300C + VSBKTA110 + VSBKTA105

Panoramic IP surveillance.

Panorama Series: 180° view multi-sensor cameras in 6.0MP & 8.0MP

Designed to perform the duties of multiple cameras, the panorama series uses a unique configuration of multiple sensors and lenses to deliver 180° of surveillance coverage. Simplify entire surveillance systems with one camera.

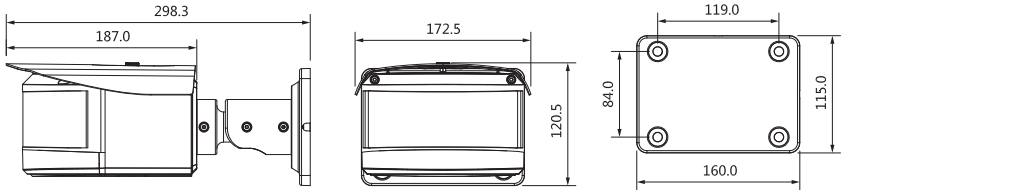
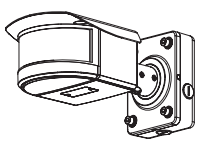
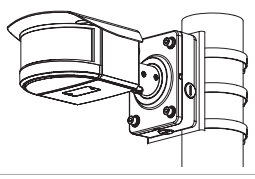
- 4096 pixels horizontal panoramic images at 25fps
- Unique multi-sensor & lens delivers 180° field of view
- Panoramic image seamlessly stitched in-camera
- 30m range 180° view infrared & auto ICR day/night
- Face detection & video analytics, eg: heat map
- MicroSD card slot for edge recording up to 128GB
- H.265 high efficiency video compression support
- Audio and alarm interface input/outputs
- BLC / HLC and 3D digital noise reduction
- IP67 weather & IK10 vandal resistant housing

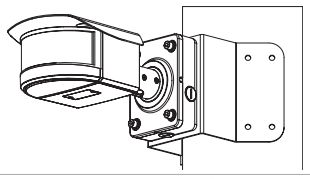
Wide Panoramic View & Infrared

Superb Low Light Performance

Vandal & Weather Resistant

	Specifications		6.0MP Panorama Bullet	8.0MP Panorama Bullet
	Ordering Information		**VSIP6MPPA:** Standard	**VSIP8MPPAV2:** Standard
Camera	Image Sensor		3 x 1/2.8" 2.0MP Progressive Scan CMOS	4 x 1/2.8" 2.0MP Progressive Scan CMOS
	Effective Pixels		4096 (H) x 832 (V)	4096 (H) x 1800 (V)
	RAM / ROM		1024MB / 128MB	
	Min. Illumination		Colour: 0.007 Lux (F1.8, 1/3s) / 0 Lux/F1.8 (B/W)	Colour: 0.007 Lux (F2.0, 1/3s) / 0 Lux/F2.0 (B/W)
	S/N Ratio		> 50dB	
	Infrared System		8 x Infrared LED, 30m range, Auto/Manual on/off control	
Lens	Lens / Iris		3.6mm F1.8 Fixed Lens	3.0mm F2.0 Fixed Lens
	Field of View		Horizontal: 180°, Vertical: 44°	Horizontal: 180°, Vertical: 80°
	Focus		Fixed	
DORI	Detect (25px/m)		52m	41m
	Observe (63px/m)		21m	16m
	Recognise (125px/m)		10m	8m
	Identify (250px/m)		5m	4m
Video	Resolution		4096 x 832 (approx. 3.4MP) to 1024 x 208 (approx. 0.2MP)	4096 x 1800 (approx. 7.3MP) to 1024 x 454 (approx. 0.5MP)
	Frame Rate	Main	4096 x 832 (1~25fps)	4096 x 1800 (1~25fps)
		Sub	1024 x 208 (1 ~ 25fps)	1024 x 452 (1 ~ 25fps)
		Third	1280 x 260 (1 ~ 25fps)	1920 x 832 (1 ~ 25fps)
	Video Compression		H.265 / H.264	
	Bit Rate		H.265: 4Kbps ~ 10Mbps / H.264: 8Kbps ~ 16Mbps	H.265: 9Kbps ~ 9472Kbps / H.264: 24Kbps ~ 15616Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)	
	Day/Night		Auto (ICR) / Color / B&W	
	Lighting Compensation		BLC / HLC / WDR (120dB)	
	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual	
	Gain Control		Auto / Manual	
	Noise Reduction		3D DNR	
IVS	Intelligent Functions		Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared, Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, People Counting, Heat Map, E-PTZ	
Network	Ethernet		RJ-45 (100/1000Base-T)	
	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
	Streaming Method		Unicast / Multicast	
	Max. User Access		10 Users / 20 Users	
Interface	Video Interface		1 Port (for adjustment only)	
	Audio Interface		1 Input, 1 Output / Compression: G.711a / G.711Mu / AAC / G.726	
	Alarm Interface		2 Inputs / 1 Output	2 Inputs / 2 Output
	RS485		N/A	
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC	
	Interoperability		ONVIF / PSIA / CGI	
Environmental	Power Supply		24VAC / PoE+ (802.3at)	
	Power Consumption		<23W	<25.5W
	Operating Conditions		-30° ~ +60° C / Less than 95% RH	-40° ~ +60° C / Less than 95% RH
	Ingress Protection		IP67	
	Vandal Resistance		IK10	
	Housing		Metal	
	Pan/Tilt/Rotation		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	
	Dimensions		298mm x 173mm x 121mm	
	Net Weight		2.60kg	2.70kg

	Panorama Bullet Installation		
Application	Diagrams		
	Mounting Options		
		Junction Box	Corner Mount
		VSBKTA120	VSBKTA120 + VSBKTA151



Pole Mount

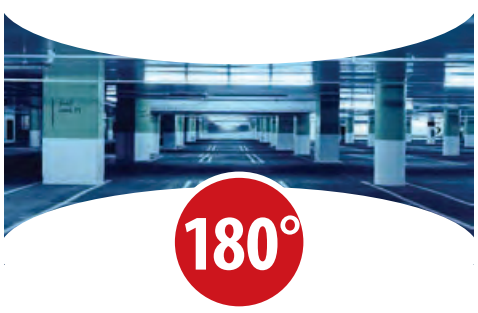
VSBKTA120 + VSBKTA150

Panoramic IP surveillance.

Panorama Series: 180° view multi-sensor dome camera in 8.0MP

Designed to perform the duties of multiple cameras, the panorama series uses a unique configuration of multiple sensors and lenses to deliver 180° of surveillance coverage. Simplify entire surveillance systems with one camera.

- 4096 pixels horizontal panoramic images at 25fps
- Unique multi-sensor & lens delivers 180° field of view
- Panoramic image seamlessly stitched in-camera
- 30m range 180° view infrared & auto ICR day/night
- Face detection & video analytics, eg: heat map
- MicroSD card slot for edge recording up to 128GB
- H.265 high efficiency video compression support
- Audio and alarm interface input/outputs
- BLC / HLC and 3D digital noise reduction
- IP67 weather & IK10 vandal resistant housing

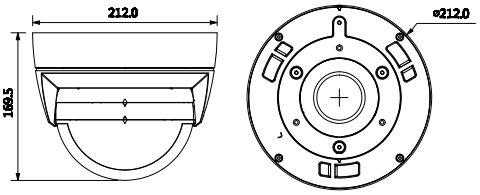
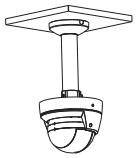
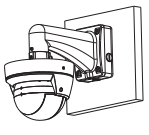
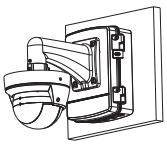
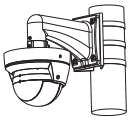
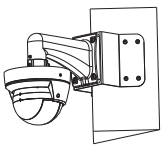
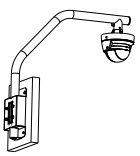


Wide Panoramic View & Infrared

Superb Low Light Performance

Vandal & Weather Resistant

	Specifications		8.0MP Panorama Dome
	Ordering Information		**VSIP8MPPADV2:** Standard
Camera	Image Sensor		4 x 1/2.8" 2.0MP Progressive Scan CMOS
	Effective Pixels		4096 (H) x 1800 (V)
	RAM / ROM		1024MB / 128MB
	Min. Illumination		Colour: 0.007 Lux (F2.0, 1/3s) / 0.05 Lux (F2.0, 1/30s), 0 Lux/F2.0 (B/W)
	S/N Ratio		> 50dB
	Infrared System		6 x Infrared LED, 30m range, Auto/Manual on/off control
Lens	Lens / Iris		2.8mm F2.0 Fixed Lens
	Field of View		Horizontal: 180°, Vertical: 80°
	Focus		Fixed
DORI	Detect (25px/m)		41m
	Observe (63px/m)		16m
	Recognise (125px/m)		8m
	Identify (250px/m)		4m
Video	Resolution		4096 x 1800 (approx. 7.4MP) to 1024 x 452 (approx. 0.5MP)
	Frame Rate	Main	4096 x 1800 (1~25fps)
		Sub	1024 x 452 (1 ~ 25fps)
		Third	1920 x 832 (1 ~ 25fps)
	Video Compression		H.265 / H.264
	Bit Rate		H.265: 9 ~ 9472Kbps / H.264: 24 ~ 15616Kbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)
	Day/Night		Auto (ICR) / Color / B&W
	Lighting Compensation		BLC / HLC / DWDR
	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual
	Gain Control		Auto / Manual
	Noise Reduction		3D DNR
IVS	Intelligent Functions		Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared, Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, People Counting, Heat Map, E-PTZ
Network	Ethernet		RJ-45 (100/1000Base-T)
	Protocol		HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP
	Streaming Method		Unicast / Multicast
	Max. User Access		10 Users / 20 Users
Interface	Video Interface		1 Port (for adjustment only)
	Audio Interface		1 Input, 1 Output / Compression: G.711a / G.711Mu / AAC / G.726
	Alarm Interface		2 Inputs / 2 Output
	RS485		N/A
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC
	Interoperability		ONVIF / PSIA / CGI
Environmental	Power Supply		24VAC / PoE+ (802.3at)
	Power Consumption		<25.5W
	Operating Conditions		-40° ~ +60° C / Less than 95% RH
	Ingress Protection		IP67
	Vandal Resistance		IK10
	Housing		Metal
	Pan/Tilt/Rotation		Pan: 0°~355° ; Tilt: 0°~75° ; Rotation: ±20°
	Dimensions		Φ212mm x 169.5mm
	Net Weight		3.60kg

	Panorama Dome Installation						
Application	Diagrams						
	Mounting Options							
		Included accessory	Ceiling Mount	Junction Mount	Power Box Mount	Pole Mount	Corner Mount	Parapet Mount
		VSBKTA111 *Requires to mount VSBKTB300C/303W*	VSBKTA111 + VSBKTB300C	VSBKTA111 + VSBKTB303W + VSBKTA120	VSBKTA111 + VSBKTB303W + VSBKTA140	VSBKTA111 + VSBKTB303W + VSBKTA150	VSBKTA111 + VSBKTB303W + VSBKTA151	VSBKTA111 + VSBKTB303S

Discreet HD surveillance.

Pinhole Series: Small profile cameras available in 1.0MP, 2.0MP & 4.0MP

Designed for discreet surveillance applications, Pinhole Series cameras are ideal in controlled ingress points, in-shelf surveillance, in vehicles, ATMs and more. Two compact camera styles enable CCTV use in difficult locations.

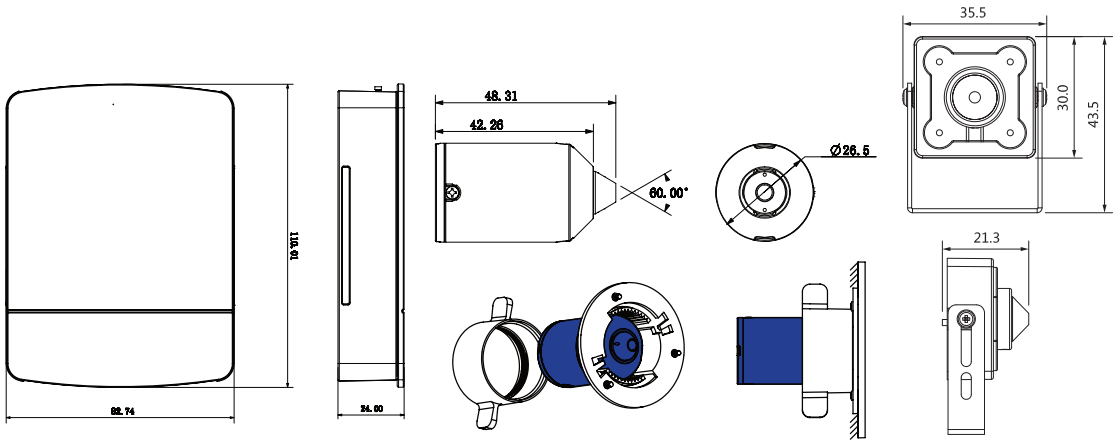
- Stream up to 4.0MP (2688 x 1520) at 25fps
- 2.8mm (104°, 83°) and 3.6mm (77°) models
- Electronic day/night and 3D digital noise reduction
- Includes pinhole brackets and connector cables
- Discreet pinhole profile: Ø12mm / 5mm depth
- Face detection and 3D digital noise reduction
- True wide dynamic range (120dB) (4MPPH & 3.6)
- MicroSD slot up to 128GB & PoE power (2/4MPPH)

Double Full HD Resolution

Discreet 5mm Camera Profile

Edge Recording via MicroSD

	Specifications		VSIP2MPPH	VSIP4MPPH	VSPINHOLE3.6
Image	Product Image				
	Ordering Information		**VSIP2MPPH**: 2.0MP Pinhole Camera + Control Unit	**VSIP4MPPHC**: 4.0MP Pinhole Camera **VSIP4MPPHM**: 4.0MP Main Box	**VSPINHOLE3.6**: 1.0MP Pinhole Camera
Camera	Image Sensor		1/2.8" 2.0 Megapixel Progressive Scan CMOS	1/2.7" 4.0 Megapixel Progressive Scan CMOS	1/4" 1.0 Megapixel Progressive Scan CMOS
	Effective Pixels		1920 (H) x 1080 (V)	2688 (H) x 1520 (V)	1280 (H) x 720 (V)
	RAM / ROM		256MB / 32MB	512MB / 32MB	-
	Min Illumination		0.07 Lux at F2.4 (Colour) / 0.007 Lux at F2.4 (B&W)	0.02 Lux at F2.4 (Colour) / 0.04 Lux at F2.4 (B&W)	0.01 Lux at F1.2 (Colour) / 0.001 Lux at F1.2 (B&W)
	S/N Ratio		> 50dB		> 56dB
	Infrared System		N/A		
Lens	Lens / Iris		2.8mm F2.4 Fixed Lens		3.6mm F2.8 Fixed Lens
	Field of View		Horizontal: 104°, Vertical: 57°	Horizontal: 83.4°, Vertical: 44.9°	77°
	Focus		Fixed		Manual
	DORI Distance		N/A	Detect: 61m / Observe: 24m / Recognise: 12m / ID: 6m	N/A
Video	Resolution		1080p (1920 x 1080) to CIF (352 x 288)	4.0MP (2688 x 1520) to CIF (352 x 288)	720p (1280 x 720) to D1 (704 x 576)
	Frame Rate	Main	1080p (1 ~ 25fps)	4.0MP (1 ~ 25fps)	720p (1 ~ 25fps)
		Sub	D1 (1 ~ 25fps)	D1 (1 ~ 25fps)	D1 (1 ~ 25fps)
		Third	1080p (1 ~ 25fps)	720p (1 ~ 25fps)	N/A
	Video Compression		H.265 / H.264		H.264 / MJPEG
	Bit Rate		H.265: 14 ~ 5632Kbps / H.264: 24 ~ 9472Kbps	H.265: 14 ~ 9984Kbps / H.264: 24 ~ 10240Kbps	H.264: 7 ~ 12Mbps
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)		
	Day/Night		Auto (Electronic) / Colour / B&W		
	Lighting Compensation		BLC / HLC / Digital WDR	BLC / HLC / WDR (120dB)	BLC / HLC / WDR (120dB)
	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual		Auto / Manual
	Gain Control		Auto / Manual		
	Noise Reduction		3D DNR		
IVS	Intelligent Functions		Face Detection, Tripwire, Intrusion, Abandoned/Missing Object, Motion Detection (4 Zone), Region of Interest (4 Zone), Privacy Masking (4 Zone)		Face Detection, Privacy Masking (4 Zone)
Network	Ethernet		RJ45 (10/100 Base-T)		
	Protocol		IPv4/IPv6; HTTP; HTTPS; SSL; TCP/IP; UDP; UPnP; ICMP; IGMP; SNMP; RTSP; RTP; SMTP; NTP; DHCP; DNS; PPPOE; DDNS; FTP; IP Filter; QoS; Bonjour		
	Streaming Method		Unicast / Multicast		-
	Max. User Access		10 Users / 20 Users		32 Users
Interface	Video Interface		N/A		
	Audio Interface		1 Input, 1 Output / Compression: G.711a, G.711mu, G.726, AAC		N/A
	Alarm Interface		2 Inputs / 2 Output		N/A
	RS232		1 Port		N/A
	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC		N/A
	Interoperability		ONVIF / PSIA / CGI		
Environmental	Power Supply		12VDC / PoE (802.3af)		12VDC
	Power Consumption		<6W		<2W
	Operating Conditions		-30° ~ +60° C / Less than 95% RH		
	Ingress Protection		N/A		
	Vandal Resistance		N/A		
	Housing		Metal		Plastic / Metal
	Pan/Tilt/Rotation		N/A		
	Dimensions		Camera: Ø26 x 47mm / Control Unit: 110 x 83 x 24mm / Cable: 8m		30 x 30 x 22mm
	Net Weight		Camera: 0.13kg / Control Unit: 0.20kg	Camera: 0.21kg / Control Unit: 0.40kg	0.05kg

	Pinhole Camera Installation	
Application	Diagrams	

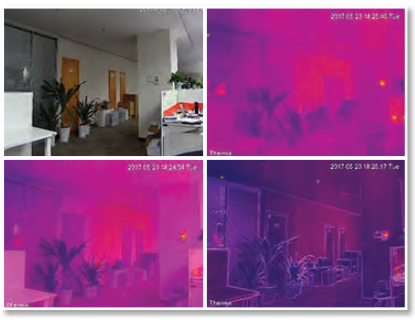
Hybrid thermal imaging.

Professional Thermal Series: Fixed lens hybrid bullet available in 2.0MP

By combining traditional image & thermal sensors, VIP Vision hybrid thermal cameras redefine your expectations of surveillance. Enhance images with Image Fusion thermal overlay, achieve excellent motion detection accuracy, setup thermal perimeters using IVS, and detect fires before they start, all in a compact weather rated body.

- Stream up to Full HD/1080p (1920 x 1080) at 25fps
- 2.0MP standard sensor & 4mm lens (75° view angle)
- One IP address/channel for thermal & visible images
- 35m infrared range, true WDR (120dB) & ultra DNR
- Superb low light capability in colour, up to 0.005lx
- Uncooled VOx thermal sensor (160x120 pixels)
- 1mm fixed lens for thermal camera (56° view angle)
- Detects 7~14µm wavelength infrared spectral range
- Adjustable modes & alarm output for fire detection
- Four IVS functions, audio I/O, IP67 rated body & PoE

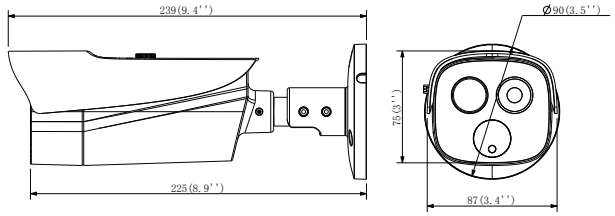
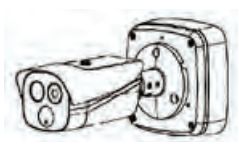
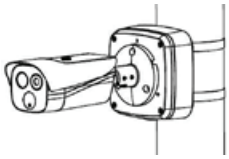
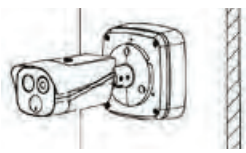
Fire Detection & Alarm Output



Adjustable Hybrid Image Modes

Weather-Resistant Metal Body

	Specifications		2.0MP Thermal Hybrid Bullet		
	Ordering Information		**VSIPTC2MPFB:** Standard		
	Visible Light Camera			**Thermal Camera**	
Camera	Image Sensor		1/2.8" 2.0MP Progressive Scan CMOS	Thermal Sensor	Uncooled VOx Microbolometer
Camera	Effective Pixels		1944 (H) x 1092 (V)	Effective Pixels	160 (H) x 120 (V)
Camera	RAM / ROM		512MB / 32MB	Sensitivity (NETD)	<50mK@f/1.1
Camera	Min Illumination		0.005 Lux/F1.8 (Color), 0 Lux/F1.8 (IR on)	Spectral Range	7~14um
Camera	S/N Ratio		> 50dB	Image Settings	Brightness, Sharpness, Region of Interest, Auto Gain Control, Flat Field Correction, 3D Digital Noise Reduction
Camera	Infrared System		1 x Infrared LED, 35m range, Auto/manual on/off control	Colour Palettes	14 thermal colour palettes (eg: WhiteHot, BlackHot, Rainbow etc.)
Lens	Lens / Iris		4mm F1.8 Fixed Lens	Lens / Iris	1mm Fixed Lens
Lens	Field of View		Horizontal: 110°~40°, Vertical: 74.8°~44.7°	Field of View	Horizontal: 56°, Vertical: 44°
Lens	Focus		Fixed	Focus	Athermalized, Focus-free
Video	Resolution		1080p (1920 x 1080) to CIF (352 x 288)		
Video	Frame Rate	Main	**Visible:** 1080p to 720p (1 ~ 25fps) / **Thermal:** 1280 x 960 to 720p (1 ~ 25fps)		
Video		Sub	**Visible:** D1 to CIF (1 ~ 25fps) / **Thermal:** 640 x 480 to 320 x 240 (1 ~ 25fps)		
Video		Third	N/A		
Video	Video Compression		H.264		
Video	Bit Rate		H.264: 640 ~ 8192Kbps		
Video	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)		
Video	Day/Night		Auto (ICR) / Color / B&W		
Video	Lighting Compensation		BLC / HLC / WDR (120dB)		
Video	White Balance		Auto / Natural / Street Lamp / Outdoor / Manual		
Video	Gain Control		Auto / Manual		
Video	Noise Reduction		3D DNR		
Video	Picture Control		Mirror / Flip (180°)		
Video	Effective Distance (Thermal Detection)		**Person:** Detect: 60m, Recognise: 20m, Identify: 10m **Vehicle:** Detect: 200m, Recognise: 60m, Identify: 30m		
IVS	Intelligent Functions		Tripwire, Intrusion, Abandoned/Missing Object, Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared		
IVS	Thermal Functions		Fire Detection and Alarm, Image Fusion		
Network	Ethernet		RJ-45 (10/100Base-T)		
Network	Protocol		IPv4/IPv6; HTTP; HTTPS; SSL; TCP/IP; UDP; UPnP; ICMP; IGMP; SNMP; RTSP; RTP; SMTP; NTP; DHCP; DNS; PPPOE; DDNS; FTP; IP Filter; QoS; Bonjour; 802.1x		
Network	Streaming Method		Unicast / Multicast		
Network	Max. User Access		10 Users / 20 Users		
Interface	Video Interface		1.0Vp-p/75Ω, PAL/NTSC (HDCVI Optional)		
Interface	Audio Interface		1 Input, 1 Output / Compression: G.711a, G.711Mu, AAC		
Interface	Alarm Interface		2 Input / 1 Output		
Interface	RS485		Support		
Interface	Edge Storage		MicroSD Card (up to 128GB) / NAS / Local PC		
Interface	Interoperability		ONVIF / PSIA / CGI		
Environmental	Power Supply		12VDC / PoE		
Environmental	Power Consumption		<12W		
Environmental	Operating Conditions		-30° ~ +55° C / Less than 95% RH		
Environmental	Ingress Protection		IP67		
Environmental	Vandal Resistance		N/A		
Environmental	Housing		Metal		
Environmental	Pan/Tilt/Rotation		N/A		
Environmental	Dimensions		239mm x 91mm x 91mm (with bracket)		
Environmental	Net Weight		<1.00kg		

	Thermal Bullet Installation		
Application	Diagrams		
Application	Mounting Options		
			
		Junction Box	Pole Mount
		VSBKTA121	VSBKTA121 + VSBKTA152E
			Corner Mount
			VSBKTA121 + VSBKTA151

Remote view from anywhere.

SLR-A Series: Solar CCTV surveillance with WiFi & 4G remote view options

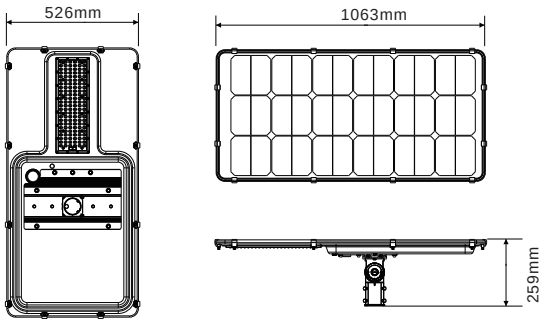
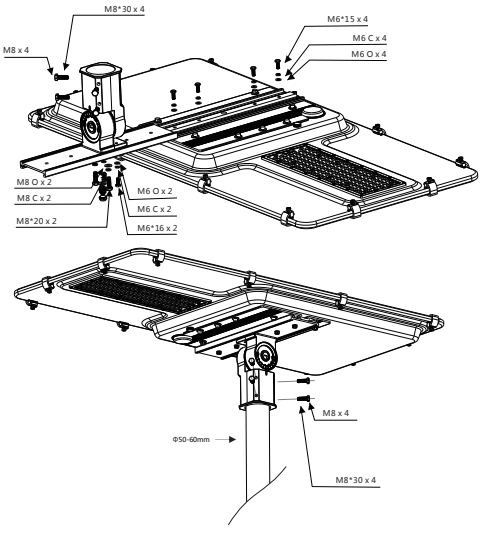
Deliver surveillance to any location with the SLR-A Series Solar CCTV Surveillance Systems. These remote-view-enabled, standalone surveillance solutions are perfect in areas without network/power infrastructure. This may include black spot monitoring, on farms, or in temporary CCTV applications such as construction sites or at events.

- Standalone powered and networked IP surveillance
- Efficient 75W monocrystalline silicon solar panel
- 4G or long range WiFi integration for remote view
- Lasts up to 2 days from full charge in cloudy conditions
- 41.6Ah lithium iron phosphate battery (LiFePo 4)
- Built-in 40W microwave motion sensor LED area light with 10m detection range at 8m height (65° angle)
- Ø50~60mm pole mount diameter (pole not included)

Solar Powered IP Surveillance

WiFi or 4G Remote View Options

Microwave Motion Area Light

	Series	Solar CCTV Surveillance Systems		
	Ordering Options	**SLR-A75-4G:** CCTV Solar System with 4G Connectivity		**SLR-A75-4W:** CCTV Solar System with WiFi Bridge Connectivity
Solar System	Solar Panel		Panel Type	75W monocrystalline silicon panel
			Conversion Rate	19.6%
			Battery	41.6Ah Lithium Iron Phosphate (LiFiPo 4) with Low Voltage Cutoff
			Area Light	40W LED
			Light Output	6947lm (160lm/W)
			Beam Angle	150° x 70° (batwing distribution)
			Motion Detection	Microwave (65°, 10m range @ 8m install height)
			Panel Tilt Adjust	-60° ~ 60°
			Ingress Protection	IP66
			Wind Resistance	Up to 65m/s
			Dimensions	1063 x 259 x 526mm
			Pole Diameter	Ø60mm
Surveillance Cameras	4.0MP Mini PTZ IP Surveillance Dome		8.0MP Motorised Lens IP Surveillance Dome	
		4.0MP 4x Optical Zoom Mini PTZ Dome **Lens:** 2.7 ~ 11mm Motorised Lens **Field of View:** 112.5° ~ 30° (4x Optical Zoom) **Pan-tilt-zoom:** Pan: 0° ~ 355° / Tilt: 0° ~ 90° **Housing:** IP66/IK10 weather & vandal resistant	Image Sensor	**8.0MP 4x Optical Zoom Ultimate Dome** **Lens:** 2.7 ~ 12mm Motorised Lens with Auto Iris **Field of View:** 112.5° ~ 30° (4x Optical Zoom) **Infrared:** Up to 50m illumination range **Housing:** IP67 weather resistant chassis
Connectivity	WiFi Option		4G Option	
		2 x 5.8GHz 120° Wireless Antennas Configured as network bridge		1 x High Speed 3G/4G LTE Modem Router 4G: FDD 700/900/1800/2100/2600; TDD 2300Mhz
Accessories	Included / Optional Components			
		Included: Camera adapter, right angle bracket, mounting box, pole mount bracket and 128GB microSD		**Optional:** 3G/4G modem external antenna
Application	Diagrams			

Traffic Series
Number Plate Cameras

Series Overview

Specially designed for vehicle surveillance, Traffic Series number plate bullet cameras are designed to reliably capture vehicle identification information in controlled environments such as parking facilities, at building gates, etc.

Cameras are available in edge enhancement & edge enhancement + ANPR models. Each are purpose built to handle challenging lighting conditions & enhance important number plate data.

Automatic Number-Plate Recognition (ANPR) models go one step further, capturing the plate image, processing the text & logging the information with time & video data. This can assist with footage playback, but it can also be integrated with data lists to perform a function, such as automatically opening a boom gate.

Model Reference

SKU	Description
VSIP2MPFBIRMTV2	2.0MP Edge Enhancement Bullet
VSIP2MPFBIRMTN	2.0MP Edge Enhancement Bullet + ANPR

Stream up to Full HD
Capture footage at Full HD 1080p (1920 x 1080) resolution.

Clear Footage at All Hours
With low light colour performance, True WDR & auto white balance.

Edge Enhancement
Adjusts the image to balance brightness and increase edge sharpness.

Auto Number-Plate Recognition
Character recognition on footage to read & store vehicle license plates.

Recording at the Edge
Record at the edge & add reliability with microSD storage up to 128GB.

High Efficient Video Coding
Advanced H.265 encoding saves up to 50% on bandwidth and storage.

Series Highlights

Handle difficult lighting conditions

with edge enhancement & lighting compensation

Traffic Series bullet cameras deliver image clarity in challenging lighting conditions, managing under/over exposure to ensure number plate details are identifiable.

- Edge enhancement processing to boost sharpness
- Improved true wide dynamic range, up to 140dB
- Low light colour images at 0.005lx min. illumination

Convenient vehicle access

with high efficiency ANPR functions

Improve traffic flow with high efficiency number plate reading performance from Traffic Series bullet cameras.

- Number plate recognition in <1 second
- Individual server for ANPR not required
- In-camera ANPR for offline operation

Number plate capture & logging

with Automatic Number Plate Recognition (ANPR)

In controlled environments, Traffic Series cameras can utilise intelligent ANPR algorithms to capture and record vehicle number plates.

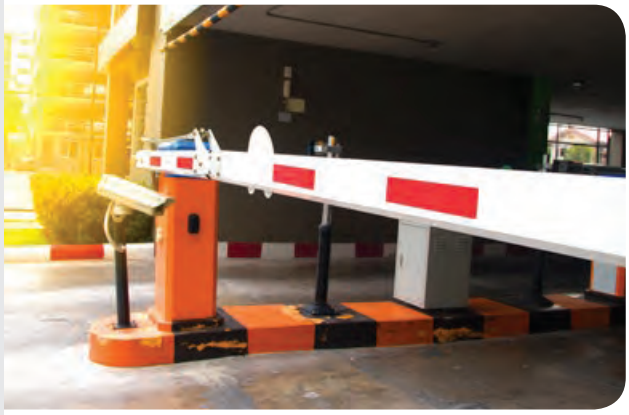
- Recognise vehicles traveling at 20km/h or less
- Plate image captured & logged plate number
- Customisable OSD that shows plate info, time etc.
- 3 ~ 8m ideal distance for ANPR applications

Automate vehicle entry points

with white listing & integrated barrier control

Integrate an ANPR camera with car park barriers to control and monitor car park access automatically. In this setup, the gate will automatically open for vehicles with number plates registered in the camera white list.

- Set up car park barrier to automatically open for whitelisted vehicles
- Add up to 10,000 vehicles to the camera whitelist



Vehicle video evidence.

Traffic Series: Motorised lens 2.0MP bullets with number plate enhancement

Specially designed for number plate enhancement, Traffic Series number plate cameras are designed to obtain video evidence with vehicle identification in controlled environments with challenging lighting conditions.

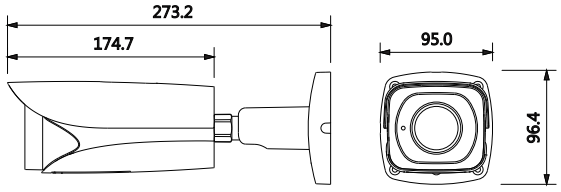
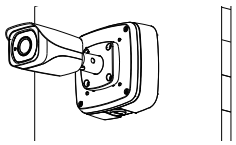
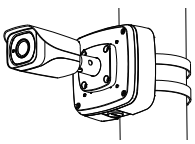
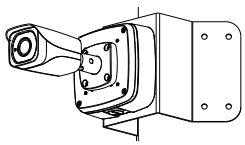
- Stream Full HD 1080p (1920 x 1080) at 25fps
- 2.7~12mm motorised lens (101 ~ 36°, DC auto iris)
- Edge enhancement for number plate detail & legibility
- Highlight compensation removes headlight glare
- Supports shutter speed windowing; set min/max speed
- Motorised infrared cut filter for true day/night
- MicroSD slot for recording at the edge up to 128GB
- IP67/IK10 weather & vandal resistant metal housing
- Automatic number-plate recognition (ANPR) with configurable OSD incl. number plate *(TN model only)*

Number Plate Enhance & Recognition

Detailed OSD Configuration

Superb Low Light Performance

	Specifications		2.0MP Number Plate Bullet	2.0MP Number Plate Bullet + ANPR
	Ordering Information		**VSIP2MPFBIRMTV2:** Edge Enhancement	**VSIP2MPFBIRMTN:** Edge Enhancement + Automatic Number Plate Recognition
Camera	Image Sensor		1/2.8" 2.0MP Progressive Scan CMOS	
	Effective Pixels		1920 (H) x 1080 (V)	
	RAM / ROM		1024MB / 128MB	
	Min Illumination		0.005 Lux/F1.6 (Color), 0 Lux/F1.53 (IR on)	
	S/N Ratio		> 50dB	
	Infrared System		4 x Infrared LED, 10m range, Auto/manual on/off control	
Lens	Lens / Iris		2.7 ~ 12mm F1.6 Motorised Varifocal Lens with Auto Iris	
	Field of View		Horizontal: 101°~36°, Vertical: 53°~20° (4x Optical Zoom)	
	Focus		Auto Focus / 3m Min. Focus Distance	
Video	Resolution		1080p (1920 x 1080) to CIF (352 x 288)	
	Frame Rate	Main	1080p (1 ~ 25fps)	
		Sub	D1 (1 ~ 25fps)	
		Third	N/A	
	Video Compression		H.265 / H.264	
	Bit Rate		32 ~ 16384Kbps	
	Bit Rate Control		Constant bit rate (CBR) / Variable bit rate (VBR)	
	Day/Night		Auto (ICR) / Color / B&W	
	Lighting Compensation		BLC / HLC / WDR (140dB)	
	White Balance		Auto / Manual	
	Gain Control		Auto / Manual	
	Noise Reduction		3D DNR	
	Picture Control		Mirror / Flip (0°, 90°, 180°, 270°)	
IVS	Intelligent Functions		Number Plate Edge Enhancement	Number Plate Edge Enhancement, Number Plate Recognition, Loop/Video Detection, Snapshot, OSD (Time, Location, Number Plate, Lane No.), White List (up to 10000), Barrier Control (1ch Relay Out)
Network	Ethernet		RJ-45 (10/1000 Base-T)	
	Protocol		IPv4v6; HTTP; TCP/IP; UDP; NTP; DHCP; DNS	
	Streaming Method		Unicast / Multicast	
	Max. User Access		10 Users / 20 Users	
Interface	Video Interface		N/A	
	Audio Interface		1 Input / 1 Output	
	Alarm Interface		2 Input / 1 Output	
	RS485		N/A	
	Edge Storage		MicroSD Card Slot (up to 128GB) / NAS / Local PC	
	Interoperability		ONVIF / SDK / CGI	
Environmental	Power Supply		12VDC / PoE+ (802.3af) (Class 4)	
	Power Consumption		<12W	
	Operating Conditions		-40° ~ +60° C / Less than 95% RH	
	Ingress Protection		IP67	
	Vandal Resistance		IK10	
	Housing		Metal	
	Pan/Tilt/Rotation		Pan: 0° ~ 360 ° ; Tilt: 0° ~ 90° ; Rotation: 0° ~ 360°	
	Dimensions		273 x 95 x 96mm	
	Net Weight		1.12kg	

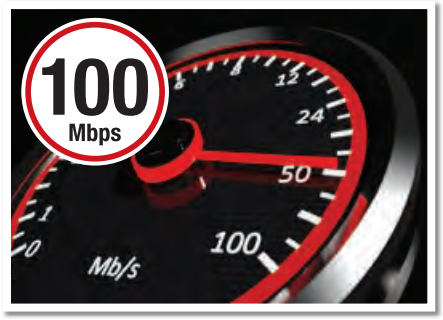
	Motorised Bullet Installation		
Application	Diagrams		
	Mounting Options		
		Junction Box	Pole Mount
		VSBKTA121	VSBKTA121 + VSBKTA152E
			
		Corner Mount	
		VSBKTA121 + VSBKTA151	

Fast surveillance networks.

VSPOE Series: Available in 4, 8, 16 & 24 port switches, midspan & extender

The VSPOE Power over Ethernet series comprises 10/100Mbps PoE switches in 4, 8, 16 & 24 port configurations, as well as easy-to-use PoE midspan/extender combination. Enjoy reliability & speed, perfect for surveillance networks.

- 100Mbps PoE downlink ports & Gigabit uplink ports
- PoE, PoE+ and Hi-PoE support for up to 60W PoE
- Extended PoE support up to 800m *(VSPOE-SW4E only)*
- Port rate control, VLAN, security, PoE output & more
- Unmanaged switches - no config required *(4 & 8 port)*
- Easy switch remote management *(16 & 24 port only)*
- 300m max transmission via midspan and extender
- PoE midspan/extender Hi-PoE support & DIN mount



Up to 100Mbps PoE+ Downlink Ports

PoE+, Hi-PoE & ePoE Support

Gigabit (1000M) Uplink Ports

PoE & Fibre Switches | VSPOE Series Specifications

	Model	VSPOE-SW8	VSPOE-SW4E
Series	Product Image		
Specifications	Ethernet Ports	1 x 1000 Base-X 1 x 10/100/1000 Base-T 8 x 10/100 Base-T (PoE power supply ports)	1 x 1000 Base-X 1 x 10/100/1000 Base-T 4 x 10/100 Base-T (ePoE power supply ports)
	Remote Management	N/A	
	Switch Power Load	Per port: ≤30W / Total: ≤93W	Ports 1~3: ≤30W Port 4: ≤60W / Total: ≤96W
	PoE Protocol	PoE (IEEE802.3af) / PoE+ (IEEE802.3at)	PoE (IEEE802.3af) / PoE+ (IEEE802.3at), Hi-PoE
	Switching Capacity	7.6Gbps	6.8Gbps
	Packet Forwarding Rate	4.17Mpps	3.57Mbps
	Packet Buffer Memory	1Mb	
	MAC Table Size	8K	
	Exchange Mode	Store & forward	
	Power Supply	48~57VDC	48~57VDC
	Lightning Protection	Common Mode: 4KV / Differential Mode: 2KV	
	Operating Environment	-30° ~ 65°C / RH90% (max)	
	Mounting Options	DIN Rail	
	Weight	0.54kg	0.48kg
	Dimensions	150 x 100 x 42mm	150 x 100 x 30mm

	Model	VSPOE-SWA8G	VSPOE-SWA16	VSPOE-SWA24
Series	Product Image			
	Series Name	VSPOE-SWA Series Power Over Ethernet Switches with Hi-PoE Support		
Specifications	Ethernet Ports	2 x 10/100/1000 Base-T 8 x 10/100 Base-T (PoE power supply ports)	2 x 10/100/1000 Base-T (combo port) 2 x 1000 Base-X (combo port) 16 x 10/100 Base-T (PoE power supply ports)	2 x 10/100/1000 Base-T (combo port) 2 x 1000 Base-X (combo port) 24 x 10/100 Base-T (PoE power supply ports)
	Remote Management	N/A	Remote Management System	Remote Management System
	Switch Power Load	Port 1: ≤60W Port 2 ~ 8: ≤30W / Total: ≤96W	Total: ≤96W / Total: ≤240W	Port 1 ~ 2: ≤60W Port 3 ~ 24: ≤30W / Total: ≤360W
	PoE Protocol	PoE (IEEE802.3af) / PoE+ (IEEE802.3at) / Hi-PoE		
	Switching Capacity	5.6Gbps	8.8Gbps	8.8Gbps
	Packet Forwarding Rate	4.17Mpps	5.36Mpps	6.5Mpps
	Packet Buffer Memory	4Mb		
	MAC Table Size	16K	4K	4K
	Exchange Mode	Store & forward		
	Operating Environment	-10° ~ 55°C / RH90% (max)		
	Mounting Options	N/A	Rackmount Tabs	Rackmount Tabs
	Weight	0.49kg	3.51kg	3.51kg
	Dimensions	190 x 100 x 42mm	440 x 300 x 44mm	440 x 300 x 44mm

PoE Midspan & Extender | VSPOE Accessory Specifications

	Model	VSPOE-MS
Specifications	Product Image	
	Ethernet	1 x 10/100/1000M Base-T 1 x 10/100/1000M Base-T (PoE power supply)
	PoE Power Supply	60W Hi-PoE support
	Indicators	Power indicator / PoE status indicator
	Exchange Mode	Store & forward
	Operation Environment	-30° ~ 65°C / 10 ~ 90% RH (max.)
	Weight / Dimensions	0.39kg / 150 x 70 x 39mm

- 60W PoE supply for high power consumption cameras
- Integrate with VSPOE-EX to connect up to 3 IP cameras
- Indicators for power status and PoE status
- Clean wall mount installation

	Model	VSPOE-EX
Specifications	Product Image	
	Ethernet	1 x 10/100 Base-T PoE power receiving port 1 x 10/100 Base-T PoE port for add. extender power supply 1 x 10/100 Base-T PoE port for IP camera power supply
	Transmission Distance	Up to 3 IP surveillance cameras (power consumption < 8W) 300m maximum transmission distance
	Power Consumption	< 3W
	Operation Environment	-30° ~ 65°C / 10 ~ 90% RH (max.)
	Weight / Dimensions	0.06kg / 79 x 52 x 23mm

- Extender acts as a passive PoE power supply cascade
- Supports Ethernet data exchange and VSPOE-MS
- IEEE 802.3af/at standard for IP camera PoE power supply
- Junction box mounting / DIN rail mounting

High-speed Gigabit networks.

VSPOE-SWB/ETH Series: Gigabit switches available in 8, 9, 16 and 24 ports

The VSPOE-SWB/ETH Gigabit Power over Ethernet series comprises 10/100/1000Mbps PoE switches in 8, 16 & 24 port models. Deliver ultra fast downlink speeds for the most demanding of network applications, including fibre-optics.

- 1000Mbps PoE downlink ports for fast networking
- PoE, PoE+ and Hi-PoE support for up to 60W PoE
- 4 x 1000 Base-X ports for fibre network *(VSETH-SW9GF)*
- Port rate control, VLAN, security, PoE output & more
- Unmanaged switches - no config required *(8 & 9 port)*
- Easy switch remote management *(16 & 24 port only)*
- Mini GBIC / SFP adapter for linking fibre infrastructure
- DIN rail mountable for professional installations

Up to 1000Mbps PoE+ Downlink Ports

PoE+ and Hi-PoE Support

Optical Fibre Networking

Gigabit PoE Switches | VSPOE-SWB Series Specifications

	Model	VSPOE-SWB8G	VSPOE-SWB16G	VSPOE-SWB24G
Series	Product Image			
	Series Name	VSPOE-SWB Series Gigabit Power Over Ethernet Switches with Hi-PoE Support		
Specifications	Ethernet Ports	8 x 10/100/1000 Base-T (PoE power supply ports)	4 x 1000 Base-X (combo port) 16 x 10/100/1000 Base-T (PoE power supply ports)	4 x 1000 Base-X (combo port) 24 x 10/100/1000 Base-T (PoE power supply ports)
	Remote Management	N/A	Remote Management System	Remote Management System
	Switch Power Load	Port 1: ≤60W Port 2 ~ 8: ≤30W / Total: ≤96W	Each port: ≤30W / Total: ≤250W	Each port: ≤30W / Total: ≤370W
	PoE Protocol	PoE (IEEE802.3af) / PoE+ (IEEE802.3at) / Hi-PoE	PoE (IEEE802.3af) / PoE+ (IEEE802.3at)	PoE (IEEE802.3af) / PoE+ (IEEE802.3at)
	Switching Capacity	20Gbps	56Gbps	56Gbps
	Packet Forwarding Rate	11.9Mpps	29.76Mpps	41.66Mpps
	Packet Buffer Memory	1.5Mb	4.1Mb	4.1Mb
	MAC Table Size	8K		
	Exchange Mode	Store & forward		
	Power Supply	48~57VDC	100~240VAC	100~240VAC
	Lightning Protection	Common Mode: 2KV / Differential Mode: 500V		
	Operating Environment	-10° ~ 55°C / RH90% (max)		
	Mounting Options	N/A		
	Weight	0.49kg	3.75kg	3.85kg
	Dimensions	190 x 100 x 30mm	440 x 260 x 44mm	440 x 260 x 44mm

Fibre Optic Network Switch | VSETH Series Specifications & Accessories

This unmanaged switch features 4 Gibabit ports & 4 Base-X ports for fibre optic networking, making it ideal for use in larger surveillance network installs.

	Model	VSETH-SW9GF
Series	Product Image	
Specifications	Ethernet Ports	5 x 10/100/1000 Base-T (non-PoE) 4 x 1000 Base-X
	Remote Management	N/A
	Switch Power Load	N/A
	PoE Protocol	N/A
	Switching Capacity	33Gbps
	Packet Forwarding Rate	13.39Mpps
	Packet Buffer Memory	1Mb
	MAC Table Size	8K
	Exchange Mode	Store & forward
	Power Supply	9~57VDC
	Lightning Protection	Common Mode: 4KV / Differential Mode: 2KV
	Operating Environment	-30° ~ 65°C / RH90% (max)
	Mounting Options	DIN Rail
	Weight	0.62kg
	Dimensions	150 x 100 x 42mm

Fibre Adapter

Mini GBIC / SFP optical fibre adapter for fibre optic networks. Transfers data at up to 1.25Gbps.

	Model	SFPMM1
Series	Product Image	
Specifications	Cable Type	MMF (Multimode Fiber)
	Form Type	SFP (Small Form-factor Pluggable)
	Interface	LC duplex
	DOM Support	Yes
	Max Bit Rate	1.25Gb/s
	Max Cable Distance	550m over OM2 MMF (50/125µm), 300m over OM1 MMF (62.5/125µm)
	Optical Components	850nm VCSEL (Vertical Cavity Surface Emitted Laser)
	TX Power	-9.5 ~ - 3dBm
	Protocols	MSA Compliant, IEEE 802.3z
	Wavelength	850nm
	Receiver Sensitivity	< -17dBm
	Power Supply	<3.5V / 300mA
	Operating Environment	-40° ~ 85°C / RH95% (max)

Live performance testing.

VSTEST Series: Available in QWERTY keyboard and touch screen models

The VSTEST Camera & Cable Tester series allow you to test any IP or analogue camera installations, as well as cables, with camera live-view, PTZ control, recording and audio testing, network testing/configuration & more.

- IP, HDCVI, AHD, TVI and analogue live camera testing
- Network config and testing (IP & DHCP client/server)
- Network, coaxial and optical cable testing
- Built-in PoE for portable network camera testing
- PTZ & RS485 control, real-time video preview & record
- H.265 decoding of cameras up to 8.0MP
- Replaceable battery w/ up to 10 hours of battery life
- Touch screen, HDMI in/out, SD card slot *(VSTEST110 only)*

Configure Any IP or Analogue Cam

Check Cable & Network Functionality

Test Anywhere with Built-in PoE

	Model	VSTEST101	VSTEST110
	Product Image		
Port	Network Port	2 x 10/100/1000M RJ45 port, support switch mode	3 x 10/100 RJ45 port, support switch mode
	BNC Port	1 x Video In (HDCVI/TVI/AHD/Composite), 1 x Video Out	2 x Video In (SDI, HDCVI/TVI/AHD/Composite), 1 x Video Out
	Function Port	1 x RS485, 1 x Audio In, 1 x Mini USB, 1 x Reset	1 x TDR, 1 x OPM, 1 x VLS, 1 x RS485, 1 x HDMI In, 1 x HDMI Out, 1 x Audio In, 1 x Audio Out, 1 x microSD
IPC Test	Protocol	ONVIF, RTSP, RTP	ONVIF
	Ethernet Test	10/100/1000M Ethernet link test, loop detect, Ethernet traffic flow monitor	10/100M Ethernet link test, loop detect, Ethernet traffic flow monitor
	Network Test	IP address scan, Ping test, Bandwidth test, DHCP server, Data link quality detection	
	IP Configuration	Static IP / DHCP client / DHCP server	
	IP Camera Resolution	Up to 4.0MP	Up to 8.0MP
	IP Camera Test	Discover camera, real time video, camera configuration, PTZ control, audio test, full screen preview and digital zoom, snapshot, record video (recording original data stream)	
	Digital Zoom	8 x Digital Zoom	5 x Digital Zoom
Analogue Test	Video Formats	HDCVI / AHD / TVI / Composite	
	Video Encoding	PAL, NTSC (auto-detect) / H.265, H.264	
	Camera Resolution	Up to 8.0MP	
	Camera Test	Real time video / PTZ control / RS485 control / Audio test/ Full screen preview with digital zoom / Snapshot / Record video / Video play back	
	Digital Zoom	8 x Digital Zoom	5 x Digital Zoom
	HDCVI OSD	Camera configuration	
HDMI	HDMI In	N/A	Supports 1440 x 900p to 720 x 420p
	HDMI Out	N/A	Supports 1920 x 1080p
PTZ	Protocol	More than 30 protocols	
	Baud Rate	150 ~ 19200bps	600 ~ 115200bps
Cable	Network Cable Testing	TDR method	TDR method, Cable search, UTP cable tester
	Coaxial Cable Testing	N/A	TDR, Analog video generator
	Optical Cable Testing	N/A	VFL (Visual fault locator)
System	Screen	4.0 inch TFT RGB screen (WVGA), 16.7M colour, 223 PPI 800 x 480 resolution (5:3 aspect ratio)	7.0 inch capacitive touch screen, 16.7M colour, 323 PPI 1920 x 1200 resolution (16:10 aspect ratio)
	Operation Method	45 key QWERTY flip keyboard , Power key, 12 control keys	Touch screen, Power key, 14 control keys
	Auto Power Off	Disable / 5~60 minutes	Disable / 1~30 minutes
	Tools	Data Monitor (from RS485 device) / Audio Recorder / Flashlight (Toggle with LED On/Off Button)	Data Monitor (from RS485 device) / Audio Recorder / Flashlight (Toggle with LED On/Off Button) / Notepad / Calculator
	Updates	Support online updates	Support online updates and local updates via SD card
Power	Battery	Replaceable 7.4V lithium-ion polymer battery, capacity 22.2Wh	Replaceable 7.4V lithium polymer battery, 5000mAh, 37Wh
	Power Output	12VDC 2A / PoE: 25.5W (802.3at)	12VDC 2A / USB: 5VDC 2A / PoE+: 48VDC
	Time	Charging time 3~4 hours, working time 10 hours	Charging time 5~6 hours, working time 10 hours
Environment	Storage	Built-in 8G flash	Built-in 8G flash, SD card (max. 32GB)
	Working Temperature	-10°C~+55°C	
	Working Humidity	30%~90%	
	Dimensions	190 x 113 x 37mm	270 x 160 x 46mm
	Weight	1.6kg	2.1kg

Additional Surveillance Accessories

High Fidelity Surveillance Microphone

Model: VSAMICA (Plastic) / VSAMICB (Aluminium)

Add high quality audio to any surveillance installation. Enables audio recording and features adjustable sensitivity, DNR & AGC.

- 80dB signal noise reduction for low background noise
- Effective range up to 100m² (VSAMICA) / 150m² (VSAMICB)
- Adjustable sensitivity; audio gain control
- Cascading support for multiple audio outputs
- Ideal for ceiling & wall mounting; for indoor use only

Network PTZ Keyboards

Model: VSIPPTZKBPT / VSIPPTZKBV2

VIP Vision PTZ keyboards can access, configure and control networked IP surveillance systems.

- Control a variety of PTZ cameras and DVRs
- LCD with user menu & operation control
- RS485, RS422, USB, RS232 & RJ45 connections
- Three dimensional joystick control of PTZ functions
- Preset, auto scan, auto pan, auto tour and pattern

VIP Vision™ Smart PSS

Desktop Surveillance Management Client

VIP Vision™ Smart PSS client for Windows and Macintosh OS X offers simple & free surveillance management for your desktop PC or laptop. This is the perfect CCTV management client to use with your home or business computer or laptop.

- Easily connect to the surveillance systems on the network and even setup local footage recording to your PC or laptop (optional).
- Live view up to 64 cameras at a time, take image snapshots, record footage, output to video wall, integrate alarm/audio and more.
- Make CCTV the ultimate business management tool: Monitor staff behaviour, identify inefficient processes, qualify complaints, confirm deliveries and prevent WHS incidents.

Ease of Use

Swift, remote interaction with your CCTV surveillance. Group cameras, set up tours and pan-tilt-zoom, using and responsive drag and drop controls.

Connect Quickly

Easily connect to all CCTV cameras and recorders on your network, with support for up to 256 devices and up to 2000 camera channels.

Organise via eMap

The surveillance eMap overlay allows you to build a virtual map of your camera locations, enabling easy CCTV access & organisation, even in large premises.

Fisheye Dewarp

Manipulate live view and stored footage of your VIP Vision Fisheye dome cameras using the Smart PSS client.

Account Management

Comprehensive user account setup and control, with detailed permission settings, user role allocation, system logs and more.

VIP Vision™ DMSS

Mobile Surveillance Management Client

Monitor and act upon surveillance & intercom alerts all from your smartphone or tablet all with the VIP Vision™ DMSS application. Enjoy deep surveillance & intercom interaction, all from the convenience of your mobile device.

- Connect your mobile phone or tablet to your surveillance quickly with remote view setup via QR code, available with most VIP Vision NVRs.
- Take snapshots, record footage, playback NVR-stored footage, pan-tilt-zoom your cameras and more, all remotely via your smart device.
- Also configure your smartphone to act as a intercom monitor. Answer visitors, monitor the door station camera & even remote unlock your door from anywhere.

Intuitive Touch Interface

Easily access your surveillance or intercom system using the intuitive touch menu system. Take snapshots, pan-tilt-zoom & more from your device.

Easily Add Devices

Connect your mobile phone or tablet quickly via QR code. Simply connect your DVR to the Internet and scan the QR code via the app to get up and running.

Respond Instantly

Receive and respond to push notifications of surveillance, alarm trigger and intercom events directly from your smart device.

Remote Unlock

Always appear to be at your premises, even when you aren't - answer door visitors, video/audio chat, unlock doors or simply monitor from Flashview.

Prevent Data Overages

Configure your device to connect to lesser-quality surveillance streams (sub or third stream) to consume less mobile data when remotely accessing surveillance.

Feature Glossary

Common terminology for VIP Vision™ CCTV surveillance cameras, network video recorders and their features.

Auto-Tracking

Auto-tracking allows the tracking action to be triggered manually or automatically by defined rules. Once rules are triggered, the camera can zoom in and track the defined target automatically.

Back Light Compensation

This is a feature of security cameras that automatically adjusts the image to compensate for bright light to give more detail on the darker areas of the image. For example, it is used to focus on the detail of a face of a person that has sunlight shining from behind.

Corridor Mode/Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

Digital Noise Reduction (2D/3D DNR)

2D/3D DNR incorporates frame-to-frame noise reduction with spatial noise reduction to produce clear video images with less noise, in low light conditions. Noise reduction is critical for video because noise affects image quality. Cameras with 2D + 3D DNR produce sharper, more accurate video images with less ghosting.

Face Detection

Detects and stores snapshots of human faces. Select playback by Face Detection to scroll through a list of captured faces with timestamps, cutting down time on searching playback.

Fisheye Dewarping

Dewarping 360° fisheye images for usable surveillance images. Display of multiple views simultaneously taken from a single 360° camera and manipulate playback footage with virtual PTZ mode and a variety of ceiling, floor and wall mount dewarp options.

H.265

H.265 high efficiency video coding provides a saving of up to 50% of bandwidth and storage compared with H.264. This technology can help customers to reduce the cost of the project and improve the transmission efficiency.

Heat Map

Records crowd density statistics via motion detection within a set time range, displaying in different colours. Crowd density ranges from high to low, with red representing high density and blue low density.

Interoperability (ONVIF)

ONVIF (Open Network Video Interface Forum) specifications ensure interoperability between network video products regardless of manufacturer.

Intrusion Detection

Alarm, record or snapshot will be triggered when the target is entering or leaving the defined area.

Object Abandoned / Missing

Alarm, record or snapshot will be triggered, when the target is abandoned/removed in the designated area and exceeds the set time.

People Counting

Produces statistics of people entering and leaving the specific area of the image. Produces different types of data reports: select daily, monthly or yearly reports; then export data for analysis.

Regions of interest

Regions of Interest (ROI) is a user defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas, eg: fix a region of interest on a vehicle number plate in a driveway scene.

Scene Change Detection

Alarm, record or snapshot will be triggered when the video scene is changed due to external factors such as turning the camera angle manually or covering over the lens.

Smart Infrared

Cameras with Smart Infrared technology adjust their infrared LED intensity to compensate for the distance of an object to prevent over exposure. This reduces cases of washed out of images due to the intensity of camera infrared.

Tripwire Detection

Alarm, record or snapshot will be triggered when the target passes through the warning line according to the movement direction set. Different direction selections, such as A->B, B->A and bi-directional.

True Day/Night

This feature consists of a automatic mechanical IR cut filter that is removed when making the camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens.

Ultra Low Light Technology

We use the latest image processing algorithm, high performance hardware and high quality optical components, allowing the camera to deliver clear, bright and low-noise color images in extremely low light conditions.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Stay connected with all that you love.™

Achieve more than security with VIP Vision and the DMSS smartphone app. Receive instant surveillance alerts, live view your cameras, playback footage, take snapshots and even remotely unlock your intercom-connected door lock. Do this and more from anywhere with your VIP Vision IP system.

VIP VISION™

Crucial evidence. Always.™

Contact your local VIP Vision network surveillance professional:

www.vip-vision.com