



AI People
& Vehicle
Detection



Face
Capture



People
Counting



The best in AI surveillance.

Ultimate AI Series: Motorised AI face capture domes in 4.0MP & 8.0MP

The Ultimate AI Series detects and captures faces from footage using machine-learned algorithms, preparing face data for use with an AI NVR face database. This enables up to 16 channels of face recognition. The series also features intelligent perimeter protection and people counting to provide meaningful video event notifications in real-time.

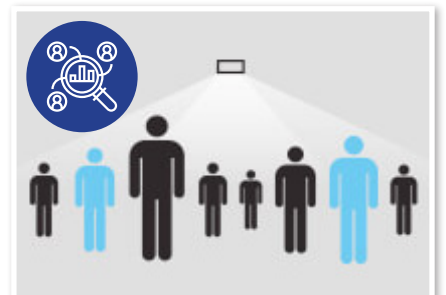
- Stream up to 8.0MP (3840 x 2160) at 25fps
- Up to 40m infrared range; true day/night (auto ICR)
- Back/highlight compensation & true WDR (120dB)
- MicroSD slot for recording at the edge up to 256GB
- Internal face detection & capture to extend recognition
- Perimeter Protection to identify people & vehicles
- Intelligent AI-enhanced people counting for retail capacity management and flow control
- Extend PoE up to 800m (requires ePoE NVR/switch)
- Heater prevents condensation in cold environments



Superb Image Performance



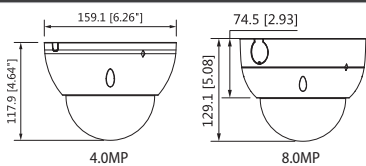
AI-Enhanced Face Detection



People Counting & Flow Control

| Specifications | | 4.0MP Motorised Vandal Dome | | 8.0MP Motorised Vandal Dome | |
|------------------------------|--|--|--|---|--|
| Ordering Information | | VSIPU-4DIRM-I: Standard | | VSIPU-4DIRM-IZ: Zoom Lens | |
| Image Sensor | | 1/1.8" 4.0MP Progressive Scan CMOS | | 1/1.8" 8.0MP Progressive Scan CMOS | |
| Effective Pixels | | 2688 (H) x 1520 (V) | | 3840 (H) x 2160 (V) | |
| RAM / ROM | | 1GB / 128MB | | 2GB / 4GB | |
| Min Illumination | | 0.003 Lux / F1.8 (Color) | | 0.002 Lux / F1.6 (Color) | |
| S/N Ratio | | > 50dB | | | |
| Infrared System | | 3 x Infrared LED, 40m range, Auto/manual on/off control | | 3 x Infrared LED, 40m range, Auto/manual on/off control | |
| Lens / Iris | | 2.7 ~ 12mm F1.8 Motorised Varifocal Lens with Auto Iris | | 2.7 ~ 12mm F1.2 Motorised Varifocal Lens with Auto Iris | |
| Field of View | | Horizontal: 114°~47°, Vertical: 62°~26° | | Horizontal: 114°~47°, Vertical: 59°~27° | |
| Focus | | Auto Focus / 1.2m Min. Focus Distance | | Auto Focus / 1m Min. Focus Distance | |
| DORI | | | | | |
| Detect (25px/m) | | 58m (wide) / 131m (tele) | | 87m (wide) / 187m (tele) | |
| Observe (63px/m) | | 23m (wide) / 52m (tele) | | 35m (wide) / 75m (tele) | |
| Recognise (125px/m) | | 12m (wide) / 26m (tele) | | 17m (wide) / 37m (tele) | |
| Identify (250px/m) | | 6m (wide) / 13m (tele) | | 9m (wide) / 19m (tele) | |
| Resolution | | 4.0MP (2688 x 1520) to CIF (352 x 288) | | 8.0MP (3840 x 2160) to CIF (352 x 288) | |
| Frame Rate | | 4.0MP (1 ~ 25fps) / 3.0MP (1 ~ 25fps) / 2.0MP (1 ~ 50fps) | | 8.0MP (1 ~ 25fps) | |
| | | D1 (1 ~ 50fps) | | D1 (1 ~ 25fps) | |
| | | 1080p (1 ~ 16fps) | | 1080p (1 ~ 25fps) | |
| Video Compression | | H.265,H.264, H.264B, H.264H, MJPEG | | | |
| Bit Rate | | H.264: 32Kbps~8192Kbps / H.265: 19Kbps~8192Kbps | | H.264: 32Kbps ~ 16384Kbps / H.265: 12Kbps ~ 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) | | | |
| White Balance | | Auto / Natural / Street Lamp / Outdoor / Manual / Regional Custom | | | |
| Gain Control | | Auto / Manual | | | |
| Noise Reduction | | 3D DNR | | | |
| Picture Control | | Mirror / Flip (0°, 90°, 180°, 270°) (8.0MP supports 90° & 270° at 1080p resolution) | | | |
| Intelligent Functions | | Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared, Abandoned Object, Moving Object | | | |
| Perimeter Protection | | Tripwire & Intrusion (Add recognition of humans & vehicles), Fast Moving Detection, Loitering Detection, Parking & Gathering Detection | | | |
| Face Detection | | Internal Face Detection & Capture to add up to 10 channels of Face Detection with AI NVR (16 total) | | | |
| Face Attributes | | Age, Gender, Expression, Glasses, Face Mask, Facial Hair | | | |
| People Counting | | Supports Line Crossing/Region/Queuing People Counting, 4 Independent Access Detection / 4 Dependent Access Detection | | | |
| Heat Map | | Yes | | N/A | |
| Event Trigger | | Motion Detection, Video Tampering, Scene Changing, Network Disconnection, IP Address Conflict, Illegal Access, Storage Anomaly | | N/A | |
| Intelligent Search | | Via NVR Smart Search / Search tripwire/intrusion events by people or vehicle, Search footage by face image and face attributes | | | |
| Network | | RJ-45 (10/100Base-T) | | | |
| Protocol | | IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; SNMP | | HTTP; HTTPS; 8021.x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP; SFTP; RTMP; Genetec; Bonjour | |
| Streaming Method | | Unicast / Multicast | | | |
| Max. User Access | | 20 Users | | | |
| Video Interface | | N/A | | | |
| Audio Interface | | 1 input (RCA Port) / 1 output (RAC Port) / Audio Compression - G.711a; G.711Mu; G726; G.723 | | | |
| Alarm Interface | | 1 channel in: 5mA 5VDC / 1 channel out: 300mA 12VDC | | 3 channel in: 5mA 5VDC / 2 channel out: 1000mA 30VDC / 500mA 50VDC | |
| RS485 | | N/A | | 1 (Bit rate: 1200bps~115200bps) | |
| Edge Storage | | MicroSD Card (up to 256GB) / NAS / FTP / SFTP | | | |
| Interoperability | | ONVIF / P2P / CGI / Milestone / Genetec | | | |
| Power Supply | | 12VDC / 24VAC / PoE (802.3af)(class 4) | | | |
| Power Consumption | | <18.7W (Heater on) | | <12.4W | |
| Operating Conditions | | -40°C ~ +60°C, ≤95% RH (Heater on) | | -30°C ~ +60°C, ≤95% RH | |
| Ingress Protection | | IP67 | | | |
| Vandal Resistance | | IK10 | | | |
| Housing | | Metal, Plastic | | | |
| Pan/Tilt/Rotation | | Pan: 0° ~ 360°, Tilt: 0° ~ 90°, Rotation: 0° ~ 360° | | | |
| Dimensions | | Ø159mm x 118mm | | Ø158mm x 129mm | |
| Net Weight | | 0.95kg | | 1.60kg | |

Application



| Junction Box | Wall Mount | Corner Mount | Pole Mount |
|------------------------------------|-------------------------------------|--|-------------------------|
| VSBKTA138 (4.0MP only) | VSBKTB210W | VSBKTA101 + VSBKTB302S + VSBKTA151 | VSBKTB210W + VSBKTA152E |
| VSBKTA101 + VSBKTB300C + VSBKTA150 | VSBKTA101 + VSBKTB302S + VSBKTA152E | VSBKTB201C (4.0MP only) | Parapet Mount |
| | In-Ceiling Mount | Ceiling Mount | |
| | | VSBKTA101 + VSBKTB300C (+ VSBKTA112 + VSBKTA113) | VSBKTA101 + VSBKTB303S |

Your local VIP Vision™ IP solutions professional: