



The best in imaging & AI.

Ultimate AI PTZ Series: 40x zoom PTZ dome available in 8.0MP

Ultimate AI Series PTZ domes offer the best in camera performance & mobility, with machine-learning AI features to deliver a superior PTZ surveillance experience. Capture incredible images in 4K resolution, with 40x optical zoom & exceptional low-light performance. This camera can perform face recognition comparison and distinguish people & vehicles from other motion events, using smart auto-tracking to follow subjects.

- Stream up to 8.0MP / 4K (3840 x 2160) at 25fps
- 40x optical zoom lens (64° ~ 2° viewing angles)
- Low light colour performance at 0.002lx; 500m IR
- Intelligent auto tracking via person/vehicle AI rules
- Face recognition database up to 10,000 face images
- Endless 360° panning with -30° ~ 90° tilt adjust
- MicroSD card slot for edge recording applications
- Audio, alarm and video interface input/output
- Supports power via Hi-PoE (IEEE802.1x)
- Built-in camera heater & IP67 rated housing



40x Lossless Optical Zoom



Face Recognition & Perimeter Protection



Superb Low Light Performance

| Specifications | | 8.0MP 40x Zoom PTZ with AI |
|---------------------|-------------------------------|---|
| Model | Product Image | |
| | Ordering Information | VSIPPTZ-8IRU-I |
| Camera | Image Sensor | 1/1.8" 8.0MP Progressive Scan CMOS |
| | Effective Pixels | 3840 (H) x 2160 (V) |
| | Min Illumination | 0.002 Lux/F1.4 (Color), 0.0002 Lux/ F1.4 (B/W), 0 Lux/F1.4 (IR on) |
| | Infrared System | 10 x Infrared LED, 500m range, Auto/manual on/off control |
| Lens | Lens / Iris | 5.6 ~ 223mm F1.4 ~ F4.8 Motorised Lens with Auto Iris |
| | Field of View | 63.9° ~ 2.0° (H), 37.2° ~ 1.2° (V), 71.2° ~ 2.4° (40x Optical Zoom) |
| | Focus | Auto/Manual Control, 0.1 ~ 1m Min. Focus Distance |
| | DORI Distances | 4400m / 1740m / 880m / 440m |
| PTZ | Pan / Tilt Range | Pan: 0 ~ 360° (endless) / Tilt: -30 ~ 90° / Auto-flip 180° |
| | PTZ Speed | Preset: Pan: 240°/s; Tilt: 120°/s Manual: Pan: 240°/s; Tilt: 100°/s |
| | Modes / Presets | Up to 300 presets / 5 Pattern, 8 Tour, Auto Pan, 5 Auto Scan |
| | Start-up Action | Auto-restore to previous PTZ/lens status |
| Video | Resolution | 8.0MP (3840 x 2160) to CIF (352 x 288) |
| | Frame Rate | Main: 8.0MP (1 ~ 25fps) Sub: D1 (1 ~ 25fps) Third: 1080p (1 ~ 25fps) |
| | Video Compression | H.265+ / H.265 / H.264+ / H.264 / MJPEG (Sub Stream) |
| | Bit Rate | H.265/H.264: 512K ~ 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) |
| | Smart Scene Adaptive | N/A |
| | White Balance | Auto / ATW / Indoor / Outdoor / Manual |
| | Gain Control | Auto / Manual |
| | Noise Reduction | Ultra 2D/3D DNR |
| | Picture Control | Flip 180° |
| Intelligence | AI Functions | Face recognition (database supports up to 10,000 faces), Perimeter protection (tripwire & intrusion with person/vehicle detection), Metadata (body & face attributes, vehicle attributes), Auto tracking via person/vehicle detection |
| | IVS Functions | Abandoned object detection, Missing object detection |
| | Video Functions | Motion Detection, Region of Interest, Electronic Image Stabilisation, Privacy Masking (24 zones), Defog |
| | Event Trigger | Motion Detection, Video Tampering, Scene Changing, Network Disconnection, IP Address Conflict, Illegal Access, Storage Anomaly |
| Network | Ethernet | RJ-45 (10Base-T/100Base-TX) |
| | Protocol | IPv4/IPv6; HTTP; HTTPS; SSL; TCP/IP; UDP; UPnP; ICMP; IGMP; SNMPv1/v2c/v3(MIB-2); ARP; RTCP; 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 port (BNC, 1.0V [p-p], 75Ω) |
| | Audio Interface | 1 Input, 1 Output / Compression: G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2 |
| | Alarm Interface | 7 Inputs / 2 Outputs |
| | RS485 | Yes |
| | Edge Storage | MicroSD Card (up to 256GB) / NAS / Local PC |
| Environmental | Interoperability | ONVIF Profile S&G / API |
| | Power Supply | 24VAC / 3A (±25%) / Hi-PoE |
| | Power Consumption | <26W / <42W (infrared & heater on) |
| | Operating Conditions | -40° ~ +70° C / Less than 95% RH |
| | Ingress Protection | IP67 |
| | Vandal Resistance | N/A |
| | Housing | Metal |
| Dimensions & Weight | Ø262(mm) x 415.6 (mm) / 8.5kg | |

| Application | | Included Accessories | |
|-------------|--|-------------------------------|---|
| | | AC power supply VSBKTB306W | |
| | | Wall Mount VSBKTB306W | Pole Mount VSBKTB306W + VSBKTA150 |
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Your local VIP Vision™ IP solutions professional: