2.0 Megapixel Full Size (PTZ) Pan Tilt Zoom
25X Optical Zoom / 656ft Starlight IR Range

OVERVIEW
- 2 Megapixel 1080P resolution @ 30fps
- 1/2.8” Starvis CMOS
- 25x Optical Zoom
- 656 Foot IR Distance
- Support Triple-streams encoding
- 4.8mm ~ 120mm lens, F1.6~F4.4
- DWDR, Day/Night(ICR), Ultra DNR
- 24VAC / 3A Included
- 1/2.8” Starvis CMOS
- IK10 - Vandaproof
- Auto iris, Auto focus
- 200°/s pan speed
- 360° endless pan rotation
- 300 Presets:
  - Auto scan/pan, 8 tour, 5 pattern
  - Built-in 2/1 alarm in/out
- Support intelligent 3D positioning
- Micro SD memory
- IP66 – Weatherproof
- Built-in 2/1 alarm in/out
- 360° endless pan rotation
- Micro SD memory
- 300 Presets:
  - 4.8mm ~ 120mm lens, F1.6~F4.4
- IP-PTZ-IR-988
- Support intelligent 3D positioning
- Support Triple-streams encoding
- Digital Zoom:
- Noise Reduction:
- Gain Control:
- White Balance:
- Backlight Compensation:
- Day/Night:
- Advanced Intelligent Functions:
  - IVS:
  - Auto Tracking:
  - Privacy Masking:
  - Motion Detection:
  - Region of Interest:
  - Electronic Image Stabilization (EIS):
  - Defog:
  - Storage anomaly
- Smart PSS, DSS, DMSS
- Edge Storage: NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
- Web Viewer: IE, Chrome, Firefox, Safari
- Management Software: Smart PSS, DSS, DMSS
- Smart Phone: iOS, Android
- 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,Quo,Bonjour,B02.1x
- Interoperability: ONVIF Profile S&G, API
- Streaming Method: Unicast / Multicast
- Max. User Access: 20 users
- Edge Storage: NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
- Web Viewer: IE, Chrome, Firefox, Safari
- Management Software: Smart PSS, DSS, DMSS
- Smart Phone: iOS, Android
- Video Interface:
  - 1 port(BNC, 1.0V[p-p], 75Ω)
- RS485:
  - 1 Audio I/O: 1/1
  - Alarm I/O: 7/2
- Power Supply:
  - AC24V/3A(+25%), PoE+(802.3at)
- Power Consumption:
  - 17W, 25W (IR On, Heater On)
- Operating Conditions:
  - -40°F ~ +158°F / Less than 95% RH
- Ingress Protection:
  - IP67
- Vandal Resistance:
  - IK10
- Construction Casing:
  - Metal
- Dimensions: 209 x 337.4mm
- Net Weight: 5.8kg(12.79lb)
- Gross Weight: 9.1kg(20.06lb)

Image Sensor: 1/2.8" STARVIS™ CMOS
Effective Pixels: 1920(H) x 1080(V), 2 Megapixels
RAM/ROM: 1024M/128M
Scanning System: Progressive
Electronic Shutter Speed: 1/1s ~ 1/30,000s
Minimum Illumination: B/W: 0.005Lux@F1.6(30IRE); 0.0005Lux@F1.6(30IRE); 0Lux@F1.6 (IR)
S/N Ratio: More than 55dB
IR Distance: Distance up to 656ft via 6 LEDs
IR On/Off Control: Auto / Manual
Lens Focal Length: 4.8mm ~ 120mm
Max. Aperture: F1.6 ~ F4.4
Angle of View: H: 62.8° ~ 2.6°
Optical Zoom: 25x
Focus Control: Auto / Manual
Close Focus Distance: 100mm ~ 1000mm
DORI Distance
  - Detect: 1613m(5292ft)
  - Observe: 646m(2119ft)
  - Recognize: 323m(1060ft)
  - Identify: 161m(528ft)
Pan/Tilt Range: Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°, auto flip 180°
Manual Control Speed: Pan: 0.1° ~ 200° /s; Tilt: 0.1° ~ 120° /s
Pre-set Speed: Pan: 300° /s; Tilt: 200° /s Presets: 300
PTZ Mode:
  - 5 Pattern, 8 Tour, Auto Pan, Auto Scan
Speed Setup:
  - Human-oriented focal length/speed adaptation
Power up Action:
  - Auto restore to prior PTZ/Lens status if power failure
Idle Motion:
  - Activate Pre-set/Scan/Tour/Pattern if no command
Protocol: DH-SD, Pelco-P/D (Auto recognition)
Intelligence:
  - Event Trigger, Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly
Auto Tracking:
  - Support
IVS:
  - Tripwire, Intrusion, Abandoned/Missing
Advanced Intelligent Functions:
  - Face Detection, Heat Map
Day/Night:
  - Auto(ICR) / Color / B/W
Backlight Compensation:
  - BLC / HLC / WDR (120dB)
White Balance:
  - Auto, ATW, Indoor, Outdoor, Manual
Gain Control:
  - Auto / Manual
Noise Reduction:
  - Ultra DNR (2D/3D)
Digital Zoom:
  - 16x
  - Flip: 180°

Video Compression:
  - H.265+/H.265/H.264+/H.264/MJPEG(SubStream)
Streaming Capability:
  - 3 Streams
Resolution:
  - 1080P(1920×1080)/1280P(1280×720)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)
Frame Rate Main stream:
  - 1080P(1.3M) / 1280P(1~50/60fps)
Frame Rate Sub stream1:
  - 800P / D1/CIF (1~25/30fps)
Frame Rate Sub stream2:
  - 720P / CIF (1~30fps)
Bit Rate Control:
  - CBR/VBR
Bit Rate:
  - H.265/H.264: up to 448K ~ 8192Kbps
Motion Detection:
  - Support
Region of Interest:
  - Support
Electronic Image Stabilization (EIS):
  - Support
Defog:
  - Support
Privacy Masking:
  - Up to 24 areas
Audio Compression:
  - G.711a/G.711Mu/AAC/G.722/
  - G.726/G.729/MPEG2-L2
Network Ethernet:
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