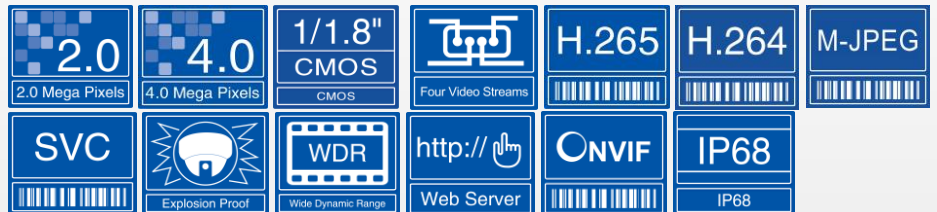


VP160-A244-M SERIES

EXPLOSION-PROOF LASER PTZ CAMERA

Infinova[®]



FEATURES

- The chip is integrated with TPU module, and supports video structuration function based on deep learning algorithm.
- 316/316L stainless steel construction, IP68 environmental rating
- Strong corrosion-resistant capabilities
- HD network video output: 1920x1080@60fps and 2560x1440@30fps
- 30X optical zoom, fast and accurate focusing
- 1/1.8" Large area progressive scanning CMOS sensor
- Ultra-low illumination: 0.0005 lux
- Supports frame integration WDR, with dynamic range up to 120dB
- H.265/H.264/M-JPEG/SVC video encoding, quad video streams
- Features rich smart functions such as video anomaly detection, behaviour-analysis detection, sound detection, statistics detection and intelligent grouping detection
- Support multi-target detection, tracking and snapshot; support optimum selection and duplicate removal for captured structured images; small face images and panoramic images are optional to be uploaded to platforms for secondary analysis and retrieval.
- Up to 8 ROI (Region of Interest) areas.
- Onvif Profile S/G/T and RTSP compliant
- Bi-directional audio, G.711-A/G.711-U/AAC /G.726 standard optional
- 1 alarm inputs, 1 on-off output
- Support remote PTZ control
- Support preset, tour and home return, etc.
- 360° continuous rotation in the horizontal direction, -90° to +90° in the vertical direction, no monitoring blind zone.
- Inbuilt heater and air circulation system to maintain the temperature inside the camera
- Built-in with laser source, the night illumination distance reaches up to 500m.
- Built-in with wiper
- IP68 rating

DESCRIPTION

VP160-A244-M series HD 2MP/4MP explosion-proof integrated IP PTZ camera is fully-developed and specially designed for use in flammable and explosive hazardous areas that has iia, iib, iic flammable gas, and the ignition temperature group is T6 group.

The flammable gas or the explosive mixture formed by steam and air is also applicable to the ignition temperature group. Such as: petroleum, chemical, mine, military, medicine, oil depot, ship, drilling platform, gas station, fireworks production, grain processing and storage. The system uses 316L stainless steel to ensure its good explosion-proof performance in hazardous areas. It has an absolute operating temperature range of -4°F~140°F (-20°C~60°C). This camera is properly sealed to prevent the intake of flammable dust and ensure strong corrosion-resistant capabilities.

All products shall meet the provisions of standard Ex db IIC T6 Gb (-40 °C ≤ Ta ≤ +60 °C)/ Ex tb IIC T80°C Db (-40 °C ≤ Ta ≤ +60 °C) IP68 (For IPX8: 2 meter & 2 hours)

The user-friendly GUI interface is designed for easy PTZ control and convenient camera parameter settings. In addition, area zoom and image PTZ are also offered. The intelligent motion detection and multiple alarm responses make it even safer to use.

TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Lens (Visible) | |
| Image Sensor | 1/1.8" progressive scan CMOS |
| Optical Zoom | 30X |
| Digital Zoom | 12X |
| Focal Length | f=6 ~ 180mm |
| Iris | F1.6 ~ F4.8 |
| Focus | Auto/Manual/Semi-Auto/One Button Focus |
| FOV(H/V/D) | 2MP - H: 56.3°-2.2°; V: 32.9°-1.2°; D: 63.3°-2.5° 4MP - H: 57.5°-2.2°; V: 33.7°-1.3°; D: 64.5°-2.6° |
| Lens Mount | - |
| Lens (Thermal) | |
| Imager Type | - |
| Lens Type | - |
| Spectral Band | - |
| Pixel Size | - |
| NETD | - |
| Focal Length | - |
| FOV | - |
| Video | |
| Camera Resolution (Visible Lens) | 2MP/4MP |
| Camera Resolution (Thermal Lens) | - |
| Max. Coding Capacity 2MP (Visible Lens) | Major stream: H.264/H.265 -60fps@1920x1080 Minor stream: H.264/H.265 -30fps@1920x1080 Third stream: H.264/H.265 -30fps@384x256 Fourth stream: H.264/H.265 -30fps@384x256 |
| Max. Coding Capacity 4MP (Visible Lens) | Major stream: H.264/H.265 -60fps@1920x1080 Minor stream: H.264/H.265 -30fps@1920x1080 Third stream: MJPEG -30fps@1920x1080 Fourth stream: H.264/H.265 -30fps@384x256 |
| Max. Coding Capacity (Thermal Lens) | Major stream: H.264/H.265 -30fps@2560x1440 Minor stream: H.264/H.265 -30fps@1920x1080 Third stream: H.264/H.265 -30fps@384x256 Fourth stream: H.264/H.265 -30fps@384x256 |

| | |
|---------------------------|--|
| Data Rate 2MP | Major stream: 128kbps~10240kbps Minor stream: 128kbps~4096kbps Third stream: 128kbps~512kbps Fourth stream: 128kbps~512kbps |
| Data Rate 4MP | Major stream: 128kbps~16384kbps Minor stream: 128kbps~8192kbps Third stream: 128kbps~512kbps Fourth stream: 128kbps~512kbps |
| Video Compression | H.265/H.264/MJPEG/SVC independent coding |
| Multi-Streaming | Four-stream independent output |
| Video Rotation | Video can be rotated by 0°, 90°, 180°, 270° |
| Audio | |
| Audio Compression | G.711-A/ G.711-U/ AAC |
| Sample Rate | 8KHz (for G.711-A/G.711-U) 16KHz, 32KHz, 44.1KHz or 48KHz (for AAC) |
| Audio Interface | 1 Input, 1 Output |
| Two-way Audio | Available |
| Mic & Speaker | - |
| Image | |
| Shutter | Auto/Manual (1/1s~1/32000s) |
| WDR | Up to 120dB |
| Exposure | Auto/Manual/Shutter |
| Sensitivity | Color mode: 0.005lux (IR OFF); B/W mode: 0.0005lux (IR OFF); 0 Lux (IR ON) |
| White Balance | Auto/Manual/Outdoor |
| Video Adjustment | Brightness, sharpness, saturation, contrast |
| Noise Reduction | 3D |
| S/N Ratio | >62dB |
| Defog | Available |
| EIS | Available |
| Mirror | Horizontal, vertical |
| Corridor Mode | - |
| Day/Night Switching | ICR |
| AGC | Available |
| BLC | Available |
| HLC | Available |
| Privacy Mask | Up to 4 definable zones |
| ROI | Up to 8 definable zones |
| OSD | Supported |
| Pan/Tilt Functions | |
| Preset | 255 |
| Pattern | 12 |
| Autopan | 12 |

TECHNICAL SPECIFICATIONS

| | |
|--------------------------------|--|
| Normal Tour | 16 groups (each tour can link to 14 actions, optional with Presets 1~32) |
| Home Return | Available |
| Timing Tour | Available |
| Autoscan | - |
| Area Zoom | Available |
| IR Illumination | |
| Smart-IR/Laser | Available |
| Wave Length | Laser |
| Night Vision Distance | 500m |
| Temperature Measurement | |
| Screening Function | - |
| Measurement | - |
| Measurement Distance | - |
| Measurement Range | - |
| Accuracy | - |
| Smart Analytics | |
| Video Analytics | Video Anomaly Detection- Camera tampering, camera shifting, defocus detection, high brightness detection, low brightness detection, video loss detection, color cast detection, and motion detection |
| | Behaviour Analysis Detection- Wire crossing detection, intrusion detection, object abandoned detection, object lost detection, loitering detection, crowd detection, fast moving detection and target fall detection |
| | Sound Detection- Abnormal sound detection |
| | Statistics Detection- Counting, density detection, queue length detection and dwelling detection |
| | Intelligent Grouping Detection- Face detection grouping, behaviour analysis grouping, people and vehicle coexistence detection grouping |
| | Multi-object detection- Support face, pedestrian, motor vehicle, and non-motor vehicle detection |
| | Capture- Support target detail capture |
| | Optimum Selection- Support optimum selection and duplicate removal for captured images to deliver the best-quality images |
| | Video Structurization- Support structurized object attributes: -Face attributes: gender, glasses, eyes open, mask, mouth open and facial expression (angry, disgusted, fearful, happy, sad, surprised or neutral) |
| | -Pedestrians attributes: gender, age (youth, middle-aged, elderly or teenager), top style (long sleeve, short sleeve, robe or trench coat, stripe, logo, plaids, matching or splicing), top color (white, black, red, yellow, grey, blue, green, dark grey or purple), bottom style (long pants, shorts, skirt, stripes or patterns), bottom color (white, black, red, yellow, grey, blue, green, dark grey or purple), glasses, hat, backpack, shoulder bag, holding kids, objects in hand, protective clothing, safety helmet, direction (front, back, side) |
| | -Motor vehicle attributes: Types (car, tricycle, truck, pickup trucks, van, bus), vehicle brands, vehicle body color (black, blue, brown, green, grey, white, red, yellow, pink, purple, dark grey, silver, orange, cyan and other), license plate number, license plate color (yellow, blue, black, white and green), license plate types (small car plate, large car plate, new energy vehicle license |

| | |
|-------------------------|--|
| | plate, large truck or trailer license plate), direction (front, rear, left, right, left front, right front, left rear and right rear) -Non-motor vehicle attributes: type (bicycle, motorcycle), equipped with umbrella, helmet, overload, direction (front, rear, left, right, left front, right front, left rear and right rear). |
| Storage | |
| Storage Slots | Support a single card |
| Built-in Storage | 512GB |
| NAS Storage | - |
| Local PC Recording | Available |
| Alarm | |
| Alarm Ports | 1 Alarm input, 1 Alarm output |
| Alarm Input | I/O input, motion detection, smart analysis, SD card removal, network disconnection, heartbeat loss |
| Alarm Association | I/O output, email, FTP upload, audio, SD card snapshot, SD card recording |
| System Functions | |
| Operating System | Win7 and higher versions |
| Browser | IE8 and higher versions |
| Access Protocol | ONVIF Profile S/G/T, CGI 2.7 |
| Multiple Access | Up to 20-ch simultaneous access |
| Web Server | Available |
| Remote Upgrade | Available |
| Password Protection | Available |
| RS485 Port | Adopt half-duplex mode, support adaptive Pelco - P and Pelco - D |
| Analog Video Output | - |
| Maximum Number of Users | 64, with 3 types of users available: administrator, normal user, and operator |
| Wiper | Available |
| Network | |
| Network Interface | 1*RJ45 10/100M self-adaptive Ethernet port |
| Network Protocols | IPv4/IPv6, TCP, UDP, IGMP, ICMP, IGMPv2/3, DHCP, SNMP (V1, V2, V3), FTP, SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, SSL, 802.1x, QoS, PPPoE, DNS, DDNS, ARP, UPnP, IP Filter, TLS, Multicast, SIP, Digest Authentication |
| IP Address Filtering | Support blacklist and whitelist filtering |
| Network Delay | <200ms |
| Environmental | |
| Anti-Static | Air discharge: 8KV, contact protection: 6KV |
| Surge Protection | Difference mode: ±4KV, common mode: ±4KV (for network port and power port) |
| Operating Temperature | -4°F~140°F (-20°C~60°C) |
| Storage Temperature | -4°F~140°F (-20°C~+60°C) |
| Operating Humidity | ≤95% RH |
| Environmental Rating | IP68 |
| Impact Resistance | - |
| Mechanical | |
| Manual Speed | Pan: 0.1°/s ~ 40°/s; Tilt: 0.1°/s ~ 40°/s |
| Preset Speed | 0.1°/s ~ 40°/s |
| Rotation Angle | H: 0°-360°; V: -90°-+90° |
| Preset Accuracy | ±0.1° |
| Electric Motor | Stepping motor |
| Electrical | |
| Power Supply | 85 ~ 260VAC |

| | |
|--------------------------------------|---|
| Power Consumption | ≤75W |
| Physical | |
| Product Dimension (L×W×H) or (H x D) | 449*303*445mm (length * width * height) |
| Package Dimension (L x W x H) | 540mm×540mm×330mm (length * width * height) |

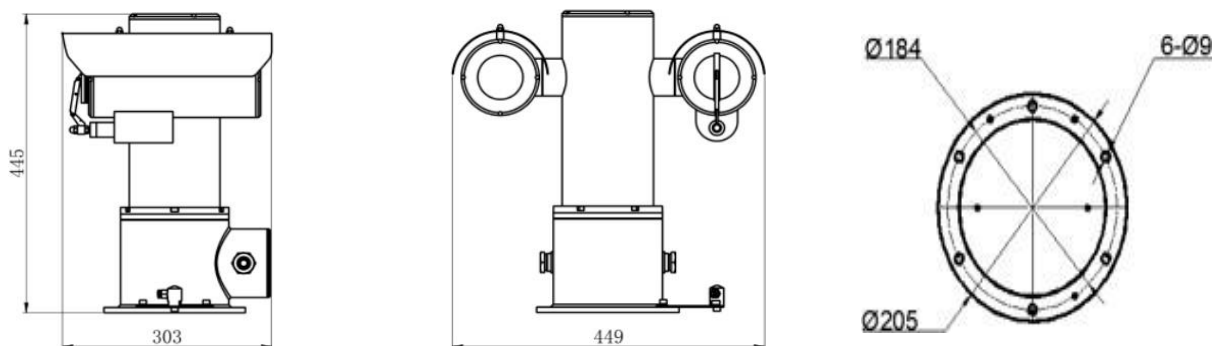
| | |
|------------------------|---------------------|
| Unit Weight | ≤34Kg |
| Shipping Weight | ≤35Kg |
| Certifications | |
| Product Certifications | IECEX KLCS 21.0016X |

ORDERING INFORMATION

| | |
|---------------|--|
| VP160-A244-MH | HD Megapixel Smart Laser Explosion-proof Integrated IP PTZ Camera System, 4MP, 30X, 1/1.8" CMOS, Day/night, H.265/H.264/M-JPEG/SVC, Laser illumination distance up to 500m, With optical port, AISI 316L Stainless Steel, AC85V-260V |
| VP160-A244-MG | HD Megapixel Smart Laser Explosion-proof Integrated IP PTZ Camera System, 4MP, 30X, 1/1.8" CMOS, Day/night, H.265/H.264/M-JPEG/SVC, Laser illumination distance up to 500m, AISI 316L Stainless Steel, AC85V-260V |
| VP160-A244-M5 | HD Megapixel Smart Laser Explosion-proof Integrated IP PTZ Camera System, 2MP, 30X, 1/1.8" CMOS, Day/night, H.265/H.264/M-JPEG/SVC, Laser illumination distance up to 500m, AISI 316L Stainless Steel, AC85V-260V |
| VP160-A244-M6 | HD Megapixel Smart Laser Explosion-proof Integrated IP PTZ Camera System, 2MP, 30X, 1/1.8" CMOS, Day/night, H.265/H.264/M-JPEG/SVC, Laser illumination distance up to 500m, With optical port, AISI 316L Stainless Steel, AC85V-260V |
| Mount | |
| V1571-20L-W | Wall mount for VP160-A244-M Series Ex-proof IR PTZ Camera, 316L stainless steel, weight 5Kg |

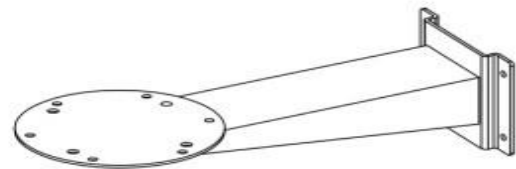
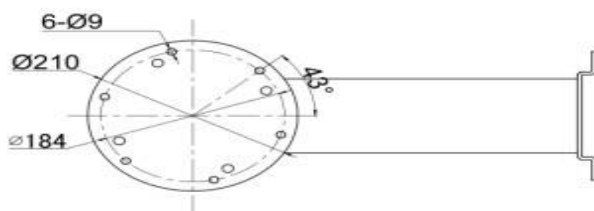
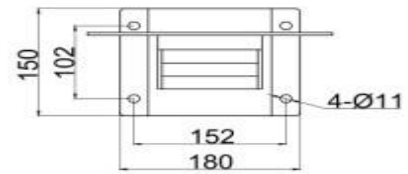
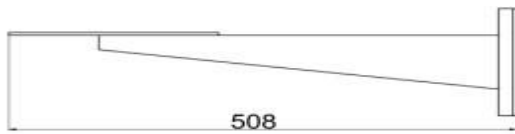
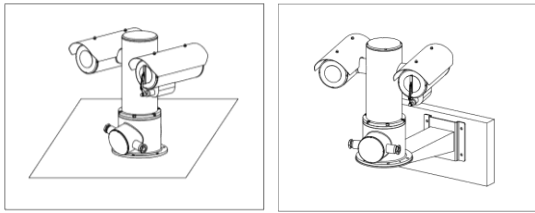
***Note:** - "Confirmation of SD Card installation has to be notified with the Camera Purchase Order. Such confirmation if received on Order Readiness will attract additional cost. Please contact Infinova to know more".

DIMENSIONS



Unit: mm

MOUNTING



Unit: mm