

IRS2/IRS

# Outdoor IR High Speed dome

2 MP

4 MP

8MP



IRS Model



IRS2 Model

## Features



### Classified Object

Focuses on human and vehicle targets classification based on deep learning



### Perimeter Protection

Line crossing, intrusion, region entrance, region exiting



### Support PoE

Ease of installation and Cost savings. Support IEEE 802.3bt allows for up to 60 W



**World First Air Wiper** Supports efficient high-pressure cleaning by automatically removing lens water droplets



### 360° Endless rotation

Effectively security at every angle and allow you to get a clear view of any area



### Max 200m night vision

Enhanced laser light to provide video with viewing range up to 200m



### Weather Proof Design

Made of aluminum alloy. IP66 rated, it is highly dustproof and corrosion resistant.



### Micro-Step Technology

Micro-step technology allows for precise, smooth and quiet control of the camera



### Easy installation

Each part is molded one by one. Makes installation easier and maintenance faster

#### Note:

- IRS2 Model can Support Air wiper
- IRS Model No Air wiper

# 8MP 20x High Speed dome

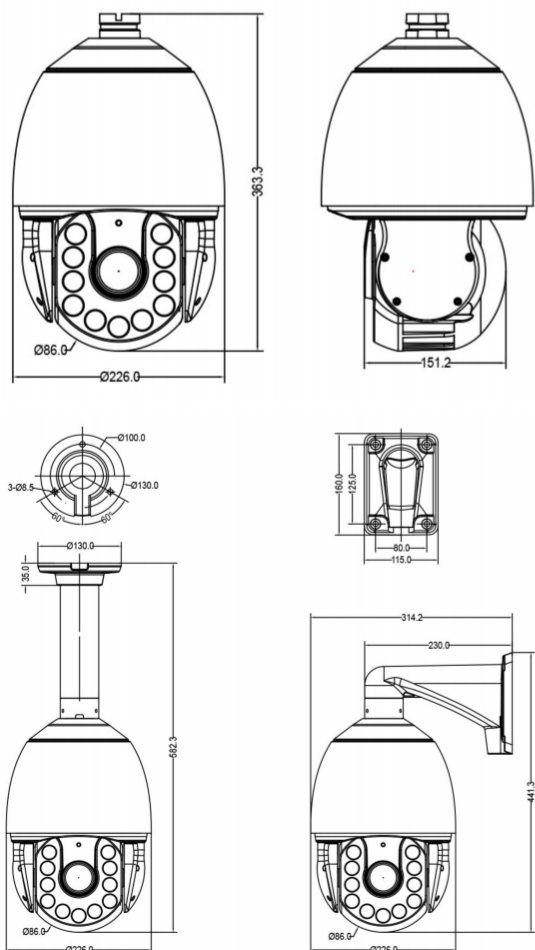
FTD-IRS2-E2085 / FTD-IRS-E2085



- 30 fps @ 3840x2160 (8MP)
- 20x Optical Zoom, Auto Focus
- 0.001 Lux color night with Premium Starlight
- 360° Continuous Pan, -10° to 90° (auto flip)
- 200M IR
- Rain-sensing auto Air wiper Hydrophobic film on lens
- Deep Learning Perimeter Protection

## Dimensions:

(Unit - mm)



## SPECIFICATIONS

| Camera               |                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor         | 8MP Starlight Sony progressive scan CMOS (1/1.8)                                                                                                   |
| Field of View        | 60.5° ~ 6.0°(Horizontal); 36.5° ~ 3.5° (Vertical)                                                                                                  |
| Zoom Speed           | 3 Sec (Optics, Wide ~ Tele)                                                                                                                        |
| Lens                 | 20X Optical (6.5~130mm); auto focus                                                                                                                |
| Resolution           | 3840x2160 (8MP)                                                                                                                                    |
| Night vision Range   | Up to 200 m (656.2ft)                                                                                                                              |
| D/N Filter           | IR Cut Filter Switch (ICR)                                                                                                                         |
| Min Illumination     | 0.001 Lux @ F1.8 (Color); <0.0005 Lux @ F1.8 (B/W)                                                                                                 |
| Image                |                                                                                                                                                    |
| Image Enhancement    | 120dbWDR/EIS, BLC, HLC, 2D/3D DNR, ROI Electronic Defog                                                                                            |
| Digital Zoom         | 16X                                                                                                                                                |
| Shutter Speed        | Manual (1/25 ~ 1/100,00), Auto                                                                                                                     |
| Focus Control        | Auto, Semi-automatic, Manual                                                                                                                       |
| D/N Control          | Customize, Auto, Color on, Color off                                                                                                               |
| S/N                  | > 56dB                                                                                                                                             |
| Image Adjustment     | Saturation, Brightness, Contrast, Sharpness, White Balance                                                                                         |
| Video / Audio        |                                                                                                                                                    |
| Video Compression    | H-264, H-265                                                                                                                                       |
| Audio Compression    | G-711A, G-711U                                                                                                                                     |
| Frame Rate           | 3840*2160@25/30fps; 1080P@25/30fps; 720P@25/30fps                                                                                                  |
| Transmission Stream  | Triple Stream (Video Bitrate: 32Kbps-16mbps)                                                                                                       |
| Network              |                                                                                                                                                    |
| Protocols            | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, RTCP, NTP, SMTP, SNMP, IPv6                                                                  |
| Compatibility        | ONVIF (PROFILE S, PROFILE G), SDK, API                                                                                                             |
| Streaming Method     | Unicast, Multicast                                                                                                                                 |
| Web Viewer           | Internet Explorer                                                                                                                                  |
| Function             |                                                                                                                                                    |
| Recording            | micro SD / SDHC / SDXC card (256G) NAS                                                                                                             |
| Record Type          | Manual, Motion Detection, Smart Detection, Schedule                                                                                                |
| Alarm Triggers       | All Intelligent Function                                                                                                                           |
| Event Action         | Email, Snapshot, Recording, Alarm Out                                                                                                              |
| Event                | Smart Motion Detection, Video Shelter                                                                                                              |
| Intelligent Function | Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exiting, Fast Moving, Human Detection, Vehicle Detection |
| PTZ                  |                                                                                                                                                    |
| Range                | Pan: 360° Endless Tilt: -10°~90° Auto Flip                                                                                                         |
| Speed                | Pan: Manual from 0.1° to 180°/s; preset: 250°/s<br>Tilt: Manual from 0.1° to 120°/s, preset: 200°/s                                                |
| Preset / Patrol      | 255 Presents, 8 patrols, (32 presets for each patrol)                                                                                              |
| PTZ Protocol         | Pelco-P/D (Auto recognition)                                                                                                                       |
| Buildin Heater       | Build in heating system (CTC)                                                                                                                      |
| Interface            |                                                                                                                                                    |
| Network              | RJ45(10/100mbps) Ethernet Port                                                                                                                     |
| Audio                | Audio Out, Audio In                                                                                                                                |
| Alarm                | Alarm Out, Alarm In                                                                                                                                |
| Power                | PoE LAN, DC/AC In                                                                                                                                  |
| Memory Slot          | Built-in Micro SD/SDHC/SDXC slot, up to (256GB)                                                                                                    |
| General              |                                                                                                                                                    |
| IP Rating            | IP66, 6KV Surge Protection                                                                                                                         |
| Wiper                | Rain-sensing auto wiper and Hydrophobic film on lens                                                                                               |
| Power Supply         | AC24 V ± 25% (3A Max) Max: 51W/26W (IR on/off)                                                                                                     |
| POE Supply           | 802.3bt (PoE++) -Max: 51W/26W (IR on/off)                                                                                                          |
| Web Language         | English                                                                                                                                            |
| Dimension            | Φ226.0 mm × 363.3mm                                                                                                                                |
| Weight               | 8.0 kg                                                                                                                                             |
| Operation Humidity   | Max Up to 95%RH(Non Condensing)                                                                                                                    |
| Operation Temp       | -45° C to 70° C (-49° F to 158° F)                                                                                                                 |
| Guarantee            |                                                                                                                                                    |
| Product Guarantee    | 2 Years factory Guarantee                                                                                                                          |

# 4MP 32x HighSpeed dome

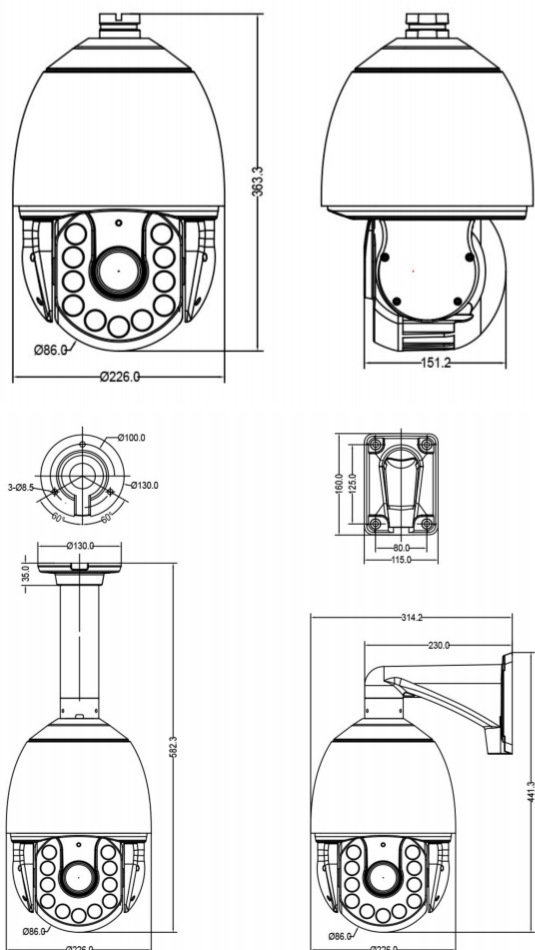
FTD-IRS2-E3245 / FTD-IRS-E3245



- 2688\*1520@50/60fps
- 32x Optical Zoom, Auto Focus
- 1/2.9" Sensor color night with Premium Starlight
- 360° Continuous Pan, -10° to 90° (auto flip)
- 200M IR
- Rain-sensing auto wiper & Hydrophobic film on lens
- Deep Learning Perimeter Protection

## Dimensions:

(Unit - mm)



## SPECIFICATIONS

| Camera               |                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor         | 4MP Starlight Sony progressive scan CMOS (1/2.9)                                                                                                   |
| Field of View        | 59.5° ~ 2.0° (Horizontal); 35.8° ~ 1.1° (Vertical)                                                                                                 |
| Zoom Speed           | 5 Sec (Optics, Wide ~ Tele)                                                                                                                        |
| Lens                 | 32X Optical (4.7~150mm); auto focus                                                                                                                |
| Resolution           | 2688*1520 (4MP)                                                                                                                                    |
| Night vision Range   | Up to 200 m (656.2ft)                                                                                                                              |
| D/N Filter           | IR Cut Filter Switch (ICR)                                                                                                                         |
| Min Illumination     | 0.005 Lux @ F1.5 (Color); 0.0005Lux @ F1.5 (B/W)                                                                                                   |
| Image                |                                                                                                                                                    |
| Image Enhancement    | 120 WDR/ EIS, BLC, HLC, 2D/3D DNR, ROI, Electronic Defog                                                                                           |
| Digital Zoom         | 16X                                                                                                                                                |
| Shutter Speed        | Manual (1/3 ~ 1/300,00), Auto                                                                                                                      |
| Focus Control        | Auto, Semi-automatic, Manual                                                                                                                       |
| D/N Control          | Customize, Auto, Color on, Color off                                                                                                               |
| S/N                  | > 55dB                                                                                                                                             |
| Image Adjustment     | Saturation, Brightness, Contrast, Sharpness, White Balance                                                                                         |
| Video / Audio        |                                                                                                                                                    |
| Video Compression    | H.264, H.265                                                                                                                                       |
| Audio Compression    | G.711A, G.711U                                                                                                                                     |
| Frame Rate           | 2688*1520@25/30fps; 1080P@25/30fps; 720P@25/30fps                                                                                                  |
| Transmission Stream  | Triple Stream (Video Bitrate: 32Kbps-16mbps)                                                                                                       |
| Network              |                                                                                                                                                    |
| Protocols            | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, RTCP, NTP, SMTP, SNMP, IPv6                                                                  |
| Compatibility        | ONVIF (PROFILE S, PROFILE G), SDK, API                                                                                                             |
| Streaming Method     | Unicast, Multicast                                                                                                                                 |
| Web Viewer           | Internet Explorer                                                                                                                                  |
| Function             |                                                                                                                                                    |
| Recording            | micro SD / SDHC / SDXC card (256G) NAS                                                                                                             |
| Record Type          | Manual, Motion Detection, Smart Detection, Schedule                                                                                                |
| Alarm Triggers       | All Intelligent Function                                                                                                                           |
| Event Action         | Email, Snapshot, Recording, Alarm Out                                                                                                              |
| Event                | Smart Motion Detection, Video Shelter                                                                                                              |
| Intelligent Function | Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exiting, Fast Moving, Human Detection, Vehicle Detection |
| PTZ                  |                                                                                                                                                    |
| Range                | Pan: 360° Endless Tilt: -10°~90° Auto Flip                                                                                                         |
| Speed                | Pan: Manual from 0.1° to 180°/s; preset: 250°/s<br>Tilt: Manual from 0.1° to 120°/s; preset: 200°/s                                                |
| Preset / Patrol      | 255 Presents, 8 patrols, (32 presets for each patrol)                                                                                              |
| PTZ Protocol         | Pelco-P/D (Auto recognition)                                                                                                                       |
| Buildin Heater       | Build in heating system (CTC)                                                                                                                      |
| Interface            |                                                                                                                                                    |
| Network              | RJ45(10/100mbps) Ethernet Port                                                                                                                     |
| Audio                | Audio Out, Audio In                                                                                                                                |
| Alarm                | Alarm Out, Alarm In                                                                                                                                |
| Power                | PoE LAN, DC/AC In                                                                                                                                  |
| Memory Slot          | Built-in Micro SD/SDHC/SDXC slot, up to (256GB)                                                                                                    |
| General              |                                                                                                                                                    |
| IP Rating            | IP66, 6KV Surge Protection                                                                                                                         |
| Wiper                | Rain-sensing auto wiper and Hydrophobic film on lens                                                                                               |
| Power Supply         | AC24 V ± 25% (3A Max) Max: 51W/26W (IR on/off)                                                                                                     |
| POE Supply           | 802.3bt (PoE++) -Max: 51W/26W (IR on/off)                                                                                                          |
| Web Language         | English                                                                                                                                            |
| Dimension            | Ø226.0 mm × 363.3mm                                                                                                                                |
| Weight               | 8.0 kg                                                                                                                                             |
| Operation Humidity   | Max Up to 95%RH(Non Condensing)                                                                                                                    |
| Operation Temp       | -45° C to 70° C (-49° F to 158° F)                                                                                                                 |
| Guarantee            |                                                                                                                                                    |
| Product Guarantee    | 2 Years factory Guarantee                                                                                                                          |

# 4MP 25x High Speed dome

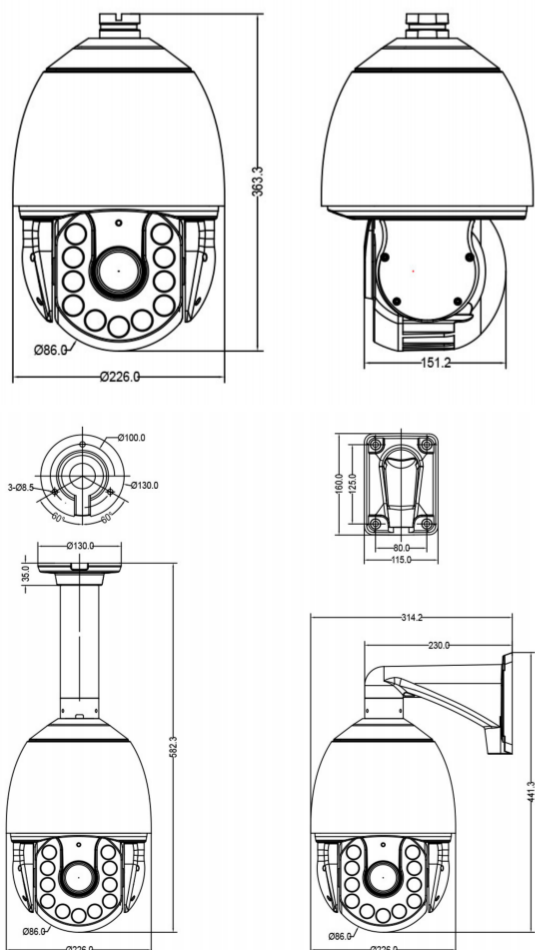
FTD-IRS2-E2545 / FTD-IRS-E2545



- 2688\*1520@50/60fps
- 25x Optical Zoom, Auto Focus
- 1/2.9" Sensor color night with Premium Starlight
- 360° Continuous Pan, -10° to 90° (auto flip)
- 200M IR
- Rain-sensing auto wiper & Hydrophobic film on lens
- Deep Learning Perimeter Protection

## Dimensions:

(Unit - mm)



## SPECIFICATIONS

| Camera               |                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor         | 4MP Starlight Sony progressive scan CMOS (1/2.9)                                                                                                   |
| Field of View        | 56.5° ~ 2.5° (Horizontal); 33.8° ~ 1.4° (Vertical)                                                                                                 |
| Zoom Speed           | 4.5 Sec (Optics, Wide ~ Tele)                                                                                                                      |
| Lens                 | 25X Optical (5 ~ 125mm); auto focus                                                                                                                |
| Resolution           | 2688*1520 (4MP)                                                                                                                                    |
| Night vision Range   | Up to 200 m (656.2ft)                                                                                                                              |
| D/N Filter           | IR Cut Filter Switch (ICR)                                                                                                                         |
| Min Illumination     | 0.005 Lux @ F1.5 (Color); 0.0005Lux @ F1.5 (B/W)                                                                                                   |
| Image                |                                                                                                                                                    |
| Image Enhancement    | 120 WDR/ EIS, BLC, HLC, 2D/3D DNR, ROI, Electronic Defog                                                                                           |
| Digital Zoom         | 16X                                                                                                                                                |
| Shutter Speed        | Manual (1/3 ~ 1/300,00), Auto                                                                                                                      |
| Focus Control        | Auto, Semi-automatic, Manual                                                                                                                       |
| D/N Control          | Customize, Auto, Color on, Color off                                                                                                               |
| S/N                  | > 55dB                                                                                                                                             |
| Image Adjustment     | Saturation, Brightness, Contrast, Sharpness, White Balance                                                                                         |
| Video / Audio        |                                                                                                                                                    |
| Video Compression    | H.264, H.265                                                                                                                                       |
| Audio Compression    | G.711A, G.711U                                                                                                                                     |
| Frame Rate           | 2688*1520@25/30fps; 1080P@25/30fps; 720P@25/30fps                                                                                                  |
| Transmission Stream  | Triple Stream (Video Bitrate: 32Kbps-16mbps)                                                                                                       |
| Network              |                                                                                                                                                    |
| Protocols            | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, RTCP, NTP, SMTP, SNMP, IPv6                                                                  |
| Compatibility        | ONVIF (PROFILE S, PROFILE G), SDK, API                                                                                                             |
| Streaming Method     | Unicast, Multicast                                                                                                                                 |
| Web Viewer           | Internet Explorer                                                                                                                                  |
| Function             |                                                                                                                                                    |
| Recording            | micro SD / SDHC / SDXC card (256G) NAS                                                                                                             |
| Record Type          | Manual, Motion Detection, Smart Detection, Schedule                                                                                                |
| Alarm Triggers       | All Intelligent Function                                                                                                                           |
| Event Action         | Email, Snapshot, Recording, Alarm Out                                                                                                              |
| Event                | Smart Motion Detection, Video Shelter                                                                                                              |
| Intelligent Function | Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exiting, Fast Moving, Human Detection, Vehicle Detection |
| PTZ                  |                                                                                                                                                    |
| Range                | Pan: 360° Endless Tilt: -10°~90° Auto Flip                                                                                                         |
| Speed                | Pan: Manual from 0.1° to 180°/s; preset: 250°/s<br>Tilt: Manual from 0.1° to 120°/s; preset: 200°/s                                                |
| Preset / Patrol      | 255 Presents, 8 patrols, (32 presets for each patrol)                                                                                              |
| PTZ Protocol         | Pelco-P/D (Auto recognition)                                                                                                                       |
| Buildin Heater       | Build in heating system (CTC)                                                                                                                      |
| Interface            |                                                                                                                                                    |
| Network              | RJ45(10/100mbps) Ethernet Port                                                                                                                     |
| Audio                | Audio Out, Audio In                                                                                                                                |
| Alarm                | Alarm Out, Alarm In                                                                                                                                |
| Power                | PoE LAN, DC/AC In                                                                                                                                  |
| Memory Slot          | Built-in Micro SD/SDHC/SDXC slot, up to (256GB)                                                                                                    |
| General              |                                                                                                                                                    |
| IP Rating            | IP66, 6KV Surge Protection                                                                                                                         |
| Wiper                | Rain-sensing auto wiper and Hydrophobic film on lens                                                                                               |
| Power Supply         | AC24 V ± 25% (3A Max) Max: 51W/26W (IR on/off)                                                                                                     |
| POE Supply           | 802.3bt (PoE++) -Max: 51W/26W (IR on/off)                                                                                                          |
| Web Language         | English                                                                                                                                            |
| Dimension            | Φ226.0 mm × 363.3mm                                                                                                                                |
| Weight               | 8.0 kg                                                                                                                                             |
| Operation Humidity   | Max Up to 95%RH (Non Condensing)                                                                                                                   |
| Operation Temp       | -45° C to 70° C (-49° F to 158° F)                                                                                                                 |
| Guarantee            |                                                                                                                                                    |
| Product Guarantee    | 2 Years factory Guarantee                                                                                                                          |



# 2MP 32x High Speed dome

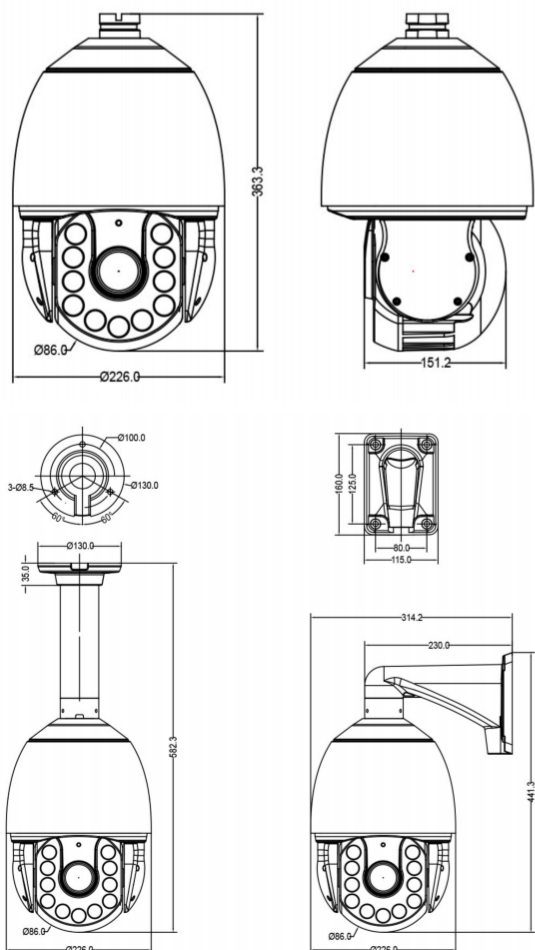
FTD-IRS2-E3225 / FTD-IRS-E3225



- 1920\*1080@50/60fps
- 32x Optical Zoom, Auto Focus
- 1/2.8" Sensor color night with Premium Starlight
- 360° Continuous Pan, -10° to 90° (auto flip)
- 200M IR
- Rain-sensing auto wiper & Hydrophobic film on lens
- Deep Learning Perimeter Protection
- human/vehicle/vessel classification

## Dimensions:

(Unit - mm)



## SPECIFICATIONS

| Camera               |                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor         | 2MP Starlight Sony IMX327 progressive scan CMOS (1/2.8)                                                                                            |
| Field of View        | 61.2° ~ 2.5° (Horizontal); 36.8° ~ 1.2° (Vertical)                                                                                                 |
| Zoom Speed           | 3.5 Sec (Optics, Wide ~ Tele)                                                                                                                      |
| Lens                 | 32X Optical (4.7~150mm); auto focus                                                                                                                |
| Resolution           | 1920*1080(2MP)                                                                                                                                     |
| Night vision Range   | Up to 200 m (656.2ft)                                                                                                                              |
| D/N Filter           | IR Cut Filter Switch (ICR)                                                                                                                         |
| Min Illumination     | 0.005 Lux @ F1.5 (Color); 0.0005Lux @ F1.5 (B/W)                                                                                                   |
| image                |                                                                                                                                                    |
| image Enhancement    | 120 WDR/ EIS, BLC, HLC, 2D/3D DNR, ROI, Electronic Defog                                                                                           |
| Digital Zoom         | 16X                                                                                                                                                |
| Shutter Speed        | Manual (1/3 ~ 1/300,00), Auto                                                                                                                      |
| Focus Control        | Auto, Semi-automatic, Manual                                                                                                                       |
| D/N Control          | Customize, Auto, Color on, Color off                                                                                                               |
| S/N                  | > 55dB                                                                                                                                             |
| Image Adjustment     | Saturation, Brightness, Contrast, Sharpness, White Balance                                                                                         |
| Video / Audio        |                                                                                                                                                    |
| Video Compression    | H-264, H-265                                                                                                                                       |
| Audio Compression    | G-711A, G-711U                                                                                                                                     |
| Frame Rate           | 1920*1080@60fps; 720P@25/30fps                                                                                                                     |
| Transmission Stream  | Triple Stream (Video Bitrate: 32Kbps-16mbps)                                                                                                       |
| Network              |                                                                                                                                                    |
| Protocols            | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, RTCP, NTP, SMTP, SNMP, IPv6                                                                  |
| Compatibility        | ONVIF (PROFILE S, PROFILE G), SDK, API                                                                                                             |
| Streaming Method     | Unicast, Multicast                                                                                                                                 |
| Web Viewer           | Internet Explorer                                                                                                                                  |
| Function             |                                                                                                                                                    |
| Recording            | micro SD / SDHC / SDXC card (256g) NAS                                                                                                             |
| Record Type          | Manual, Motion Detection, Smart Detection, Schedule                                                                                                |
| Alarm Triggers       | All Intelligent Function                                                                                                                           |
| Event Action         | Email, Snapshot, Recording, Alarm Out                                                                                                              |
| Event                | Smart Motion Detection, Video Shelter                                                                                                              |
| Intelligent Function | Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exiting, Fast Moving, Human Detection, Vehicle Detection |
| PTZ                  |                                                                                                                                                    |
| Range                | Pan: 360° Endless Tilt: -10°~90° Auto Flip                                                                                                         |
| Speed                | Pan: Manual from 0.1° to 180°/s; preset: 250°/s<br>Tilt: Manual from 0.1° to 120°/s; preset: 200°/s                                                |
| Preset / Patrol      | 255 Presents, 8 patrols, (32 presets for each patrol)                                                                                              |
| PTZ Protocol         | Pelco-P/D (Auto recognition)                                                                                                                       |
| Buildin Heater       | Build in heating system (CTC)                                                                                                                      |
| Interface            |                                                                                                                                                    |
| Network              | RJ45(10/100mbps) Ethernet Port                                                                                                                     |
| Audio                | Audio Out, Audio In                                                                                                                                |
| Alarm                | Alarm Out, Alarm In                                                                                                                                |
| Power                | PoE LAN, DC/AC In                                                                                                                                  |
| Memory Slot          | Built-in Micro SD/SDHC/SDXC slot, up to (256GB)                                                                                                    |
| General              |                                                                                                                                                    |
| IP Rating            | IP66, 6KV Surge Protection                                                                                                                         |
| Wiper                | Rain-sensing auto wiper and Hydrophobic film on lens                                                                                               |
| Power Supply         | AC24 V ± 25% (3A Max) Max: 51W/26W (IR on/off)                                                                                                     |
| POE Supply           | 802.3bt (PoE++) -Max: 51W/26W (IR on/off)                                                                                                          |
| Web Language         | English                                                                                                                                            |
| Dimension            | Φ226.0 mm × 363.3mm                                                                                                                                |
| Weight               | 8.0 kg                                                                                                                                             |
| Operation Humidity   | Max Up to 95%RH(Non Condensing)                                                                                                                    |
| Operation Temp       | -45° C to 70° C (-49° F to 158° F)                                                                                                                 |
| Guarantee            |                                                                                                                                                    |
| Product Guarantee    | 2 Years factory Guarantee                                                                                                                          |