Milesight

# AI 25X/30X/36X/42X Speed Dome Network Camera

NDAA



AI | H.265+ HEVC | Starlight | Super WDR | IR | Privacy Masking | SD HC | GMST ONVIF | PoE | Weather Proof

DATASHEET

## Key Features

- Smart IR II (Combining the High Beam and Low Beam to adjust IR intensity to fit different lighting conditions.)
- 140dB Super WDR (Excellent performance even when the ratio of the luminosity of brightest and darkest is up to 140dB.)
- 90fps High Frame Rate (Camera can easily catch images with no latency despite of the high-speed movement.)
- 0.005Lux Starlight (Deliver high detailed color images even in low light environment reaching 0.005Lux.)
- Smart PTZ Motion Detection (Pan and tilt to the position of motion detected area automatically and zoom in synchronously.)
- IR Distance up to 300m (Enabling 300 meters distinct images at night with IR LEDs.)
- 300 Preset Positions (The user can easily control the lens position via mouse to monitor interested area and set up to 300 preset positions for patrolling.)
- Keyboard Control (Shortcut keys for PTZ control via Milesight Keyboard.)
- Smart Stream (Bandwidth, storage and bit rate are saved with Smart Stream On, eg, H.265+ saves 70%~80% bandwidth that of H.264.)

### AI Video Analytics

- 8 intelligent VCA modes powered by AI engine, which can 8 intelligent VCA modes powered by AI engine, which can intelligently filter objects to focus on human and vehicle detection.
- Object Counting (Human & vehicle) technology provides high accuracy and real-time data based on AI algorithm with statistic reports.
- Face Detection function detects human faces in the monitoring scene and captures the snapshots, which greatly enhances the monitoring efficiency.




### Intelligent PTZ Auto Tracking

With AI detection, Milesight Network Camera could leverage motor mechanism to perform Pan/Tilt/Zoom to track the moving human or vehicle automatically and adjust zoom status flexibly according to the target distance with the powerful optical zoom capability.




### Up to 42X Optical Zoom

Embedded with optical zoom lens, the cameras' resolution is up to 42X optical zoom which allows the user to zoom up to distant objects while still maintaining the clarity and delivering high quality video over the entire zoom range.




### 30fps@4K

Providing 4K HD resolution with frame rate of 30fps, the camera performs well in catching detailed image regardless of the moving speed.



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| | Model | MS-C2941-X25R(T)PE<br>(2MP) |
|---|---|---|
| **Camera** | Image Sensor | 1/2.8” Progressive Scan CMOS |
| | Min. Illumination | Color: 0.005Lux@F1.5, B/W: 0Lux with IR on |
| | WDR | 140dB Super WDR |
| | Shutter Time | 1/100000s~1s |
| | DORI Distance | D: 86~1870m<br>O: 33.5~734m<br>R: 17~367m<br>I: 8.5~184m |
| | Digital Zoom | 16X |
| | Day/Night Mode | Day/Night/Auto/Customize/Schedule |
| | S/N | >55dB |
| **Lens** | Focal Length | 4.8~120mm,<br>**25X** Optical Zoom |
| | Zoom Speed | Approx. 6s (Wide-Tele) |
| | Field of View | H61.6°~H2.8°/D70.8°~D3.2°/V36.8°~V1.5° |
| | Focus Control | Auto/Semi-Auto/Manual |
| | Minimum Working Distance | 100/1500mm (Wide/Tele) |
| | Aperture | F1.5~F3.5 |
| | Iris Control | Auto |
| **PTZ** | Pan Range/Pan Speed | 360°endless / Pan Manual Speed: 0.1°~250°/s, Pan Preset Speed: 250°/s |
| | Tilt Range/Tilt Speed | -5°~90°(Auto Flip) / Tilt Manual Speed: 0.1°~160°/s, Tilt Preset Speed: 160°/s |
| | Proportional Zoom | Support |
| | Preset Quantity | 300 |
| | Patrol | 8 Patrols, up to 48 presets each patrol |
| | Pattern | 4 Patterns |
| | Auto Tracking | Support |
| | Power Off Memory | Support |
| | Other Function | Auto Scan, Auto Home, Preset Freezing, 3D Positioning, PTZ Limits, Initial Position |
| **IR** | IR Distance | Up to 200m |
| | IR Angle | Auto/Manual |

# AI 25X/30X/36X/42X Speed Dome Network Camera



| | | |
|---|---|---|
| **Video** | Max. Image Resolution | 1920x1080 |
| | Primary Stream | 60Hz: **90fps@(1920x1080)(Optional for T Series)**, 60fps@(1920x1080, 1280x960, 1280x720, 704x576)<br>50Hz: **90fps@(1920x1080)(Optional for T Series)**, 50fps@(1920x1080, 1280x960, 1280x720, 704x576) |
| | Secondary Stream | 60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240)<br>50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240) |
| | Tertiary Stream | 60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240)<br>50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240) |
| | Video Compression | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG |
| | Video Bit Rate | 16Kbps~16Mbps(CBR/VBR Adjustable) |
| **Image** | Privacy Masking | Up to 8 Areas (Mask Area and Mosaic Area are optional) |
| | ROI | Up to 8 Areas |
| | Image Setting | Brightness/Contrast/Saturation/Sharpness |
| | Image Enhancement | BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-flicker, Corridor Mode, LDC |
| **Interface** | Ethernet | 1*RJ45 10M/100M Ethernet Port |
| | Audio I/O | 1/1 (Standard) |
| | Alarm I/O | 4/2 (Standard) |
| | RS485 | Standard |
| **Network** | Network Storage | NAS(Support NFS, SMB/CIFS), ANR |
| | Protocol | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, LLDP, SIP, VPN, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL,TLS 1.2 |
| **Audio** | Audio Compression | G.711/AAC/G.722/G.726 |
| | Audio Sampling Rate | 8/16/32/44.1/48KHz |
| | Audio Bit Rate | 16~256kbps |
| **Intelligent Analytics** | Video Analysis | VCA 2.0: Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Line Crossing, Loitering, Object Left, Object Removed |
| | Attribute Extraction | Simultaneously detect up to 50 targets and capture humans and vehicles in real time.<br>Recognize attributes including Upper and Lower Clothing Color, Hat, and Vehicle Types (Bicycle, Car, Motorcycle, Bus, Truck, E-scooter). |
| | Face Detection & Face Attribute Recognition | Detect and capture faces, get real-time snapshots and the attributes include Age, Gender, Glasses, Mask and Cap.<br>Support Faces Privacy Mode, the detected faces in the face detection area will be mosaic automatically. |
| | Object Counting & Report | Count the number of objects crossing the line, optionally human and vehicle,<br>Support regional people counting for up to 4 detection areas |

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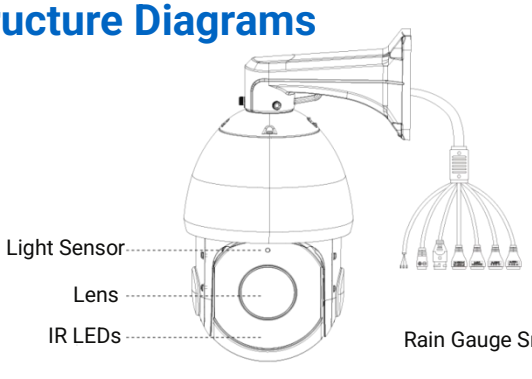


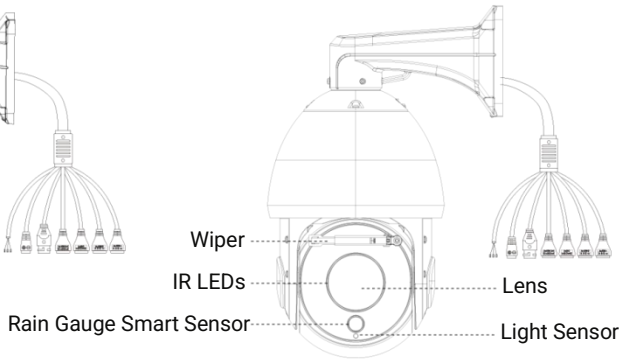
| | | |
|---|---|---|
| **Event** | Basic Event | Motion Detection, Tamper Detection, External Output, External Input, Audio Alarm, etc. |
| | Exception | Network Disconnection, IP Address Filtering, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error, No SD Card |
| | Event Action | FTP Upload Record, Snapshot , SMTP Upload Record, SD Card Record, SIP Phone, Play Audio, PTZ Motion, HTTP Notification, etc. |
| **System** | Watermark | Support |
| | Storage | Support microSD/SDHC/SDXC Card Local Storage, up to 1TB |
| | SIP/VoIP Support | Yes, Voice & Video-over-IP |
| | System Compatibility | ONVIF Profile G & M & S & T, API |
| **General** | Working Condition | Temperature: -40℃~60℃ / Humidity: 0~95%(Non-condensing) |
| | Power Supply | PoE (802.3at) / AC 24V / DC 24V / 3A±10% |
| | Power Consumption | Min.: 11.4W (DC 24V / AC 24V), 12.4W(PoE)<br>Max.: 25.6W (DC 24V / AC 24V), 28.7W(PoE) |
| | Heater | Support |
| | Wiper (Optional) | - |
| | Surge Protection | 6KV |
| | Dimensions/Weight | Φ205mmX310mm / Approx. 4Kg |
| | Warranty | 2 Years / 3 Years (Optional) |
| **Certifications** | EMC | CE-EMC (EN 55032, EN 55035), FCC (PART 15B) |
| | Safety | UL: UL 62368-1, CE-LVD (EN IEC 62368-1) |
| | Environment | CE-ROHS (Directive (EU) 2015/863 amending 2011/65/EU) |
| | Protection | IP66, IK10(Optional) |

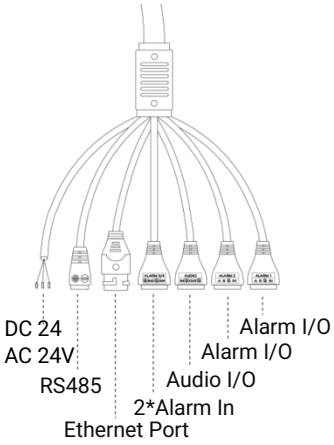
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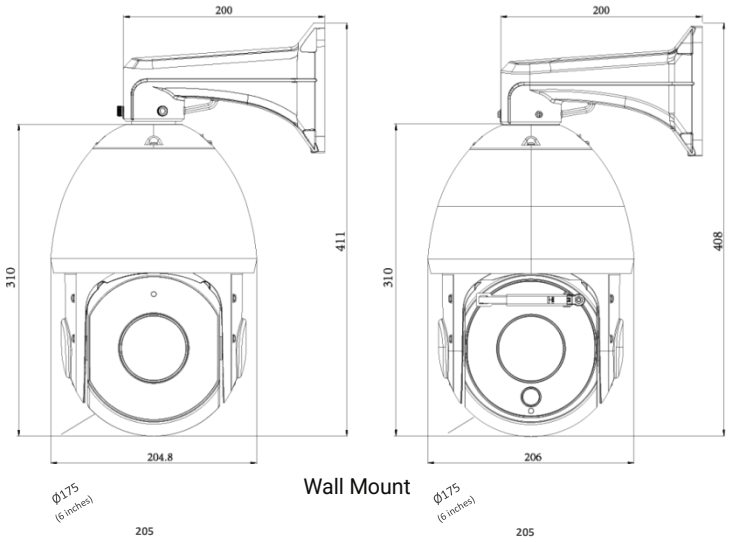


## Structure Diagrams

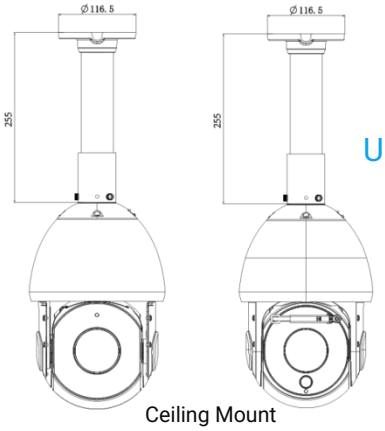



Wall Mount

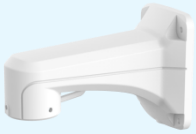



Ceiling Mount

Units: mm

## Accessories Support





A41 Wall Mount



A42 Pendant



A02 V2 Pole Mount



A03 External Corner Bracket



A43 Junction Box



A42-L Extension Lever


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