Rhodium
Professional Video Solution

Diamond Series

NDAA

# 2MP/5MP/4K AI Fix Lens Weather-proof Mini Dome Network Camera Series - IR 25M

AI · H.265+ HEVC · Starlight · Super WDR · 3-Axis · Mic · SD XC · GOST Onvif · PoE · Weather-proof · Vandal-proof

## KEY FEATURES

- NDAA Compliance (Rhodium Fully NDAA-compliant products are well suited for government, defense and a range of projects subject to the NDAA.)
- Advanced Functions (Boasting to support various advanced functions such as HLC, Defog, ROI.)
- Built-in Microphone (Supporting audio function to hear what is happening in front of the camera.)
- SIP (Session Initiation Protocol. Providing audio/alarm/intercom and video streaming for mobile phones and video phones.)
- 3-Axis Mechanical Design (Featuring 3-axis mechanical design for fast and easy adjustment of the camera's viewing angle.)
- 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 intelligently filter objects to focus on human and vehicle detection.
- People Counting technology provides high accuracy and real-time data based on AI algorithm with statistic reports.

### 120dB Super WDR

Rhodium's sensor-based WDR technology allows the camera to record greater scene details with true color reproduction even under the extreme back light and high contrast conditions. The ratio that the brightest light signal values divided by the darkest light signal values is up to 120dB.

### 0.005Lux Ultra Low-light

The starlight camera is able to deliver high detailed color images even in low light environment reaching 0.002Lux(Color) or 0Lux(B/W), and near infrared light environments without any supplementary lighting.

### IP67&IK10

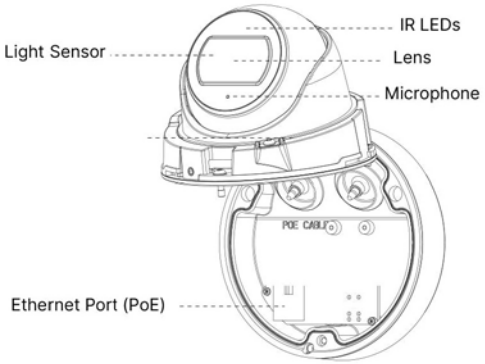
Supporting IP67-rated weather proofing and IK10-rated vandal proof which are the leading level of the industry, the camera is well protected against adverse impact to ensure the performance.

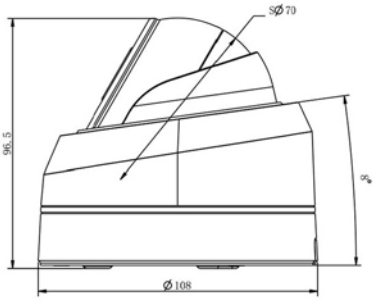
| | Model | RDO 2975-(R)PD (2MP) | RDO 5375-PD (5MP) | RDO 8175-SPD (4K) |
|---|---|---|---|---|
| **Camera** | Image Sensor | 1/2.8" Progressive Scan CMOS | | |
| | Min. Illumination | Color: 0.005Lux@F1.6<br>B/W: 0Lux with IR on | Color: 0.008Lux@F1.6<br>B/W: 0Lux with IR on | Color: 0.012Lux@F1.6<br>B/W: 0Lux with IR on |
| | WDR | 120dB Super WDR | | |
| | Lens | 2.8mm/4mm/6mm@F1.6 | | |
| | Mount | M12 | | |
| | Field of View | H111°/D128°/V61°(2.8mm)<br>H91°/D106°/V50°(4mm)<br>H55°/D63°/V32°(6mm) | H105°/D131°/V78°(2.8mm)<br>H86°/D108°/V63°(4mm)<br>H52°/D63°/V40°(6mm) | H110°/D126°/V60°(2.8mm)<br>H91°/D106°/V50°(4mm)<br>H55°/D63°/V32°(6mm) |
| | Shutter Time | 1/100000s~1s | | |
| | IR Distance | Up to 25m | | |
| | Day/Night Mode | Day/Night/Auto/Customize/Schedule | | |
| | S/N | >55dB | | |
| **Video** | Max. Image Resolution | 1920x1080 | 2592x1944 | 3840x2160 |
| | Primary Stream | 60Hz: **60fps@(1920x1080)(Optional for R Series),** 30fps@(1920x1080, 1280x960, 1280x720, 704x576)<br>50Hz: **50fps@(1920x1080)(Optional for R Series),** 25fps@(1920x1080, 1280x960, 1280x720, 704x576) | 60Hz: 30fps@(2592x1944, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576)<br>50Hz: 25fps@(2592x1944, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576) | 60Hz/50Hz: 30fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576) |
| | Secondary Stream | 60Hz: **60fps@(704x576)(Optional for R Series),** 30fps@(704x576, 640x480, 640x360, 352x288)<br>50Hz: **50fps@(704x576)(Optional for R Series),** 25fps@(704x576, 640x480, 640x360, 352x288) | 60Hz: 30fps@(704x576, 640x480, 640x360, 352x288)<br>50Hz: 25fps@(704x576, 640x480, 640x360, 352x288) | |
| | Tertiary Stream | 60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 352x288)<br>50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 352x288) | | |
| | Video Compression | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG | | |
| | Video Bit Rate | 16Kbps~16Mbps(CBR/VBR Adjustable) | | |
| | Privacy Masking | Up to 4 areas | | |
| | ROI | Up to 8 areas | | |
| | Image Setting | Brightness/Contrast/Saturation/Sharpness | | |
| **Interface** | Ethernet | 1*RJ45 10M/100M Ethernet Port | | |
| | Audio Interface | Built-in Microphone | | |
| **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, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL | | |

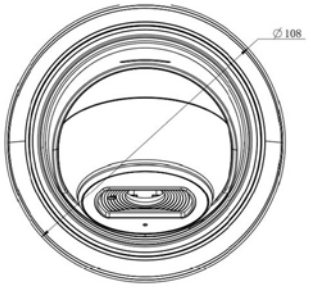
| | | | | |
|---|---|---|---|---|
| **Audio** | Audio Compression | G.711/AAC/G.722/G.726 | | |
| | Audio Sampling Rate | 8/16/32/48KHz | | |
| | Audio Bit Rate | 16~256kbps | | |
| | Two-way Audio | N/A | | |
| **Intelligent Analytics** | Video Analysis | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed | | |
| | People Counting&Report | Count the number of people entering or exiting | | |
| **System** | Storage | Support microSD/SDHC/SDXC Card Local Storage, up to 256G | | |
| | Advanced Function | BLC, HLC, 2D DNR, 3D DNR,Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark | | |
| | SIP/VoIP Support | Yes, Voice & Video-over-IP | | |
| | Event Trigger | Motion Detection, Network Disconnection, Audio Alarm, etc. | | |
| | Event Action | FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc. | | |
| | System Compatibility | ONVIF Profile G & Q & S & T, API | | |
| **General** | Working Temperature | -40℃~60℃ | | |
| | Working Humidity | 0~90%(Non-condensing) | | |
| | Power Supply | PoE (802.3af) | | |
| | Power Consumption | 3W MAX<br>5.1W MAX (With IR on) | 3.8W MAX<br>5.8W MAX (With IR on) | 4.6W MAX<br>6.6W MAX (With IR on) |
| | Housing | Vandal-proof IK10-rated Metal Housing / Up to IP67-rated for Weather-resistant Performance | | |
| | Weight | 600g (Junction Box Version) / 410g (Cable Out Version) | | |
| | Dimensions | Φ108mmX96.5mm (Junction Box Version) / Φ106mmX76.5mm (Cable Out Version) | | |
| | Warranty | 3/5 Years | | |

## Structure Diagrams

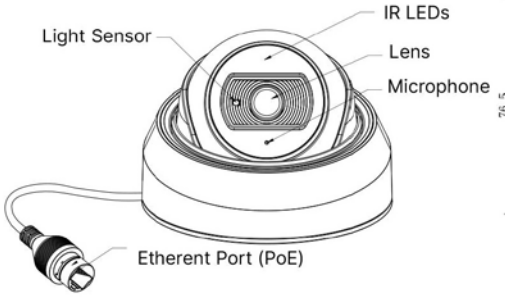
### Junction Box Version

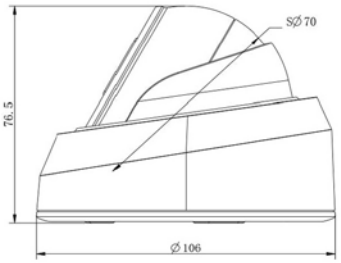


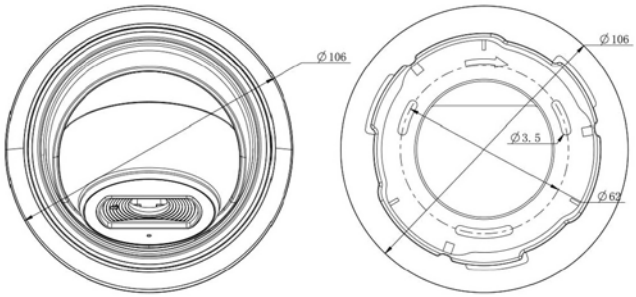




### Cable Out Version




Units: mm

## Accessories Support

RA01 Pole Mount

Weight: 720g
Dimensions: 170*51.5*152.6mm

RA03 External Corner Bracket

Weight: 900g
Dimensions: 170*152.5*76.3mm

RA71 Wall Mount

Weight: 530g
Dimensions: 162*124*78 mm

RA81 Recessed Mount

Weight: 450g
Dimensions: 168.9*168.9*91.3mm

RA83 Junction Box

Weight: 270g
Dimensions: φ122*45.5mm