



MD9581-H

Mobile Dome Network Camera

H.265 • 5MP • WDR Pro • 25M IR • Smart Stream III • IP67 • IK10 • EN50155 • PoE

- H.265 Compression Technology
- 30 fps @ 2560x1920
- WDR Pro for Unparalleled Visibility in High Contrast Environments
- Fast AE for Quick Adaptation to Light Changes
- Smart Stream III to Optimize Bandwidth Efficiency
- Weather-proof IP66 and IP67, Vandal-proof IK10 Housing
- Built-in IR Illuminators, effective up to 25 Meters
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- EN50155 2017 OT2 Compliance for Professional Mobile Surveillance
- Video Rotation for Corridor Scenario



Technical Specifications

System Information

| | |
|-------|------------------------------------|
| Model | MD9581-H(2.8mm) MD9581-H(3.6mm) |
| CPU | Multimedia SoC (System-on-Chip) |
| Flash | 256MB |
| RAM | 1GB |

Camera Features

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|-------------------------------|---|
| Image Sensor | 1/2.7" Progressive CMOS |
| Max. Resolution | 2560x1920 (5MP) |
| Lens Type | Fixed-focal |
| Focal Length | MD9581-H(2.8mm): f = 2.8 mm MD9581-H(3.6mm): f = 3.6 mm |
| Aperture | MD9581-H(2.8mm): F1.8 MD9581-H(3.6mm): F2.0 |
| Auto-iris | Fixed-iris |
| Field of View | MD9581-H(2.8mm): 102° (Horizontal) 76° (Vertical) 129° (Diagonal) MD9581-H(3.6mm): 83° (Horizontal) 61° (Vertical) 111° (Diagonal) |
| Shutter Time | 1/5 sec. to 1/32,000 sec. |
| WDR Technology | WDR Pro |
| Day/Night | Yes |
| Removable IR-cut Filter | Yes |
| IR Illuminators | Built-in IR illuminators, effective up to 25 meters with Smart IR, IR LED*2 |
| Minimum Illumination | MD9581-H(2.8mm): 0.09 lux @ F1.8 (Color) 0.01 lux @ F1.8 (B/W) 0 lux with IR illumination on MD9581-H(3.6mm): 0.1 lux @ F2.0 (Color) 0.01 lux @ F2.0 (B/W) 0 lux with IR illumination on |
| Pan Range | ±30° |
| Tilt Range | 90° |
| Rotation Range | ±180° |
| Pan/Tilt/Zoom Functionalities | ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in) |
| Storage | Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording |

Video

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|--------------------|--|
| Video Compression | H.265, H264, MJPEG |
| Maximum Frame Rate | 30 fps @ 2560x1920 60 fps @ 1920x1080 |
| Maximum Streams | 3 simultaneous streams |
| S/N Ratio | MD9581-H(2.8mm): 55 dB MD9581-H(3.6mm): 55 dB |
| Dynamic Range | 120 dB |
| Video Streaming | Adjustable resolution, quality and bitrate, Smart Stream III |
| Image Settings | Adjustable image size, quality and bit rate; Time stamp, text overlay, flip & mirror; Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks; Scheduled profile settings, 3DNR, video rotation, defog |

Audio

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|-------------------|---------------|
| Audio Capability | One-way Audio |
| Audio Compression | G.711, G.726 |

| | |
|-----------------------------|---|
| Audio Interface | Built-in microphone External line input |
| Effective Range | 5 meters |
| Network | |
| Users | Live viewing for up to 10 clients |
| Protocols | 802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP, UPnP |
| Interface | 10Base-T/100 BaseTX Ethernet (M12, Female, 4pin D-coded) |
| ONVIF | Supported, specification available at www.onvif.org |
| Solution Integration | |
| Video Motion Detection | Five-window video motion detection |
| Smart VCA | Intrusion detection, loitering detection, line crossing detection, unattended object detection, missing object detection, face detection, crowd detection, running detection *Please access https://license.vivotek.com/ to get the free trial license. |
| VADP Package | Trend Micro IoT Security, Deep Learning VCA (Smart Motion Detection, Smart VCA) |
| Alarm and Event | |
| Event Trigger | Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, SD card life expectancy, cybersecurity events (brute force attack event, cyberattack event, quarantine event), shock detection |
| Event Action | Event notification via digital output, email, HTTP, FTP, NAS server, SD card File upload via email, HTTP, FTP, NAS server, SD card |
| General | |
| Connectors | M12 for Network/PoE connection*1 Audio input*1 Digital input*1 (30V, 1A) Digital output*1 (12V, 50mA) |
| LED Indicator | System power and status indicator |
| Power Input | IEEE 802.3af PoE Class 2 |
| Power Consumption | Max. 6 W (IR on) Max. 3.3 W (IR off) |
| Dimensions | 98 x 54 x 110.8 mm |
| Weight | 400 g |
| Certifications | EMC: CE (EN 55032, EN 55024 Class B, EN 50121-4, EN 50121-3-2), FCC (FCC Part 15 Subpart B Class B), RCM (AS/NZS CISPR 32 Class B), VCCI (VCCI-CISPR 32 Class B); Safety: UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471); Environment: IK10 (IEC 62262), IP66/67 (IEC 60529), NEMA (NEMA 250 Type 4X); Railway: EN 50155: 2017, EN 50121-3-2:2016, EN 60068-2-1:2007, EN 60068-2-2:2007, EN 61373:2010, EN 45545-2, IEC 60571 Ed 3.0, IEC 62236-3-2 Ed 3.0, EN50121-4:2016; Vehicles: ECE R118 |
| Operating Temperature | Starting Temperature: -40°C ~ 55°C (-40°F ~ 131°F) Working Temperature: -40°C ~ 60°C (-40°F ~ 140°F) (IR off) -40°C ~ 55°C (-40°F ~ 131°F) (IR on) Maximum (intermittent): 70 °C (158 °F) |
| Humidity | 98% |
| Warranty | 36 months |
| System Requirements | |
| Operating System | Microsoft Windows 8/7 Mac 10.12 (Chrome only) |
| Web Browser | Chrome 58.0 or above Internet Explorer 10/11 |
| Other Players | VLC: 1.1.11 or above |
| Included Accessories | |
| Others | Quick installation guide, alignment sticker, screwdriver, accessories bag |

Dimensions

