

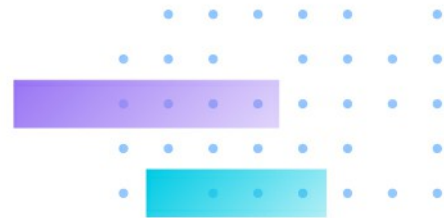
MD9581-H

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

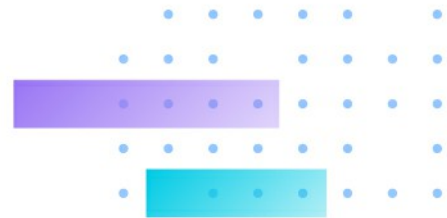
Image Sensor	1/2.7" Progressive CMOS
Max. Resolution	2560x1920 (5MP)
Lens Type	Fixed-focal
Focal Length	MD9581-H(2.8mm): f = 2.8 mm MD9581-H(3.6mm): f = 3.6 mm
Aperture	MD9581-H(2.8mm): F1.8 MD9581-H(3.6mm): F2.0
Iris Type	Fixed-iris
Field of View	MD9581-H(2.8mm): 102° (Horizontal) 76° (Vertical) 129° (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

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

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 line input 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	
Packing Contents	Quick installation guide, alignment sticker, screwdriver, accessories bag

Dimensions

