



# 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
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)
On-board 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
<b>Network</b>	
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 <a href="http://www.onvif.org">www.onvif.org</a>
<b>Solution Integration</b>	
Video Motion Detection	Five-window video motion detection
VADP Package	Trend Micro IoT Security
<b>Alarm and Event</b>	
Alarm Triggers	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
Alarm Events	Event notification via digital output, email, HTTP, FTP, NAS server, SD card File upload via email, HTTP, FTP, NAS server, SD card
<b>General</b>	
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
Casing	IP66, IP67, IK10, NEMA 4X
Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL, NEMA 4X, EN50155 2017 OT2/ST1, IEC60571, EN61373, EN50121-3-2, EN50121-4, EN50132-7, EN45545 HL1, IEC62236-3-2, IEC62236-3-2, EN60068-2-1, EN60068-2-2, 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
<b>System Requirements</b>	
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 QuickTime: 7 or above
<b>Included Accessories</b>	
Others	Quick installation guide, alignment sticker, screwdriver, accessories bag

## Dimensions

