

advidia M-87-V 8MP VF Dome IP Camera

TECHNICAL SPECIFICATIONS

This specification is intended for use by the design/construction professional and any user of advidia Security products to assist in developing project specifications for security and video surveillance systems.

advidia M-87-V 8MP VF Dome IP Camera

A. GENERAL CHARACTERISTICS

1. The network IR camera shall deliver H.265 stream, H.264 stream and MJPEG.
2. The network IR camera shall produce a resolution of 3840 x 2160 at up to 20 fps with a 16:9 aspect ratio.
3. The network IR camera shall utilize an approximate 1/2.8" Progressive Scan CMOS.
4. The network IR camera shall be equipped with 2.8 ~ 12mm Lens.
5. The network IR camera shall feature an IR-Cut Filter with Auto Switch (ICR)
6. The network IR camera shall feature a 120dB wide dynamic range.
7. The network IR camera shall produce a color image with a minimum illumination 0.003Lux (F1.6, AGC ON) and monochrome image with 0Lux.
8. The network IR camera shall offer a built-in IR illumination to produce a clear monochrome image in zero lux conditions with up to 40m (131ft)
9. The network IR camera shall transmit up to three (3) video streams simultaneously which can be selected to H.265 (Main profile) or H.264 (High profile).
10. A user shall be able to view videos on a PC using a browser.
11. A user shall be able to view videos on a smartphone and tablet using viewer software for iPhone and Android.
12. The network IR camera shall offer Cross Line, Intrusion, Enter Area, Leave Area Detection, Motion Detection, Tampering Alarm, Audio Detection
13. The network IR camera shall have a micro-SD memory card slot that supports up to 256GB.
14. The network IR camera shall have a built-in microphone.
15. The network IR camera shall support IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SSL/TLS, RTMP protocols.
16. NDAA Compliant.
17. The Camera shall conform to the ONVIF G / S / T.

B. CAMERA

1. Image Sensor 1/2.8" Progressive Scan CMOS
2. Scanning Mode Progressive
3. Minimum Illumination
 - a. Color 0.003Lux (F1.6, AGC ON)
 - b. B/W 0Lux with IR
 - c. Day & Night IR-Cut Filter with Auto Switch (ICR)
4. Dynamic Range 120dB

C. LENS

1. Focal Length 2.8 ~ 12mm
2. Angular Field of View H: 107.4°~ 29.2°, V: 54.2°~ 16.3°, O: 111.0°~33.1°
3. Aspect ratio (16:9)

D. VIDEO

1. Compression Format H.265, H.264, MJPEG
2. Image Resolution
 - a. 16:9 aspect ratio (8 mega pixel mode)
3840 X 2160 (20fps)
3072 X 1720 / 1920 x 1080 / 1280 x 720 / 640 x 360 / 704 X 288 / 352 X 288 (25/30fps)
3. H.265 / H.264
 - a. Transmission Mode Constant bit rate / VBR
 - b. Frame Rate 1 / 2 / 3 / 4 / 5 / 6 / 8 / 10 / 12 / 15 / 16 / 18 / 20 fps for 3840X2160
1 / 2 / 3 / 4 / 5 / 6 / 8 / 10 / 12 / 15 / 16 / 18 / 20 / 22 / 25 / 30 fps for 3072X1728
 - c. Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960 / Custom kbps (Max 16,384 kbps)
 - d. Image Quality
 - i. Constant bit rate
 - ii. VBR
 - e. Transmission type Unicast, Multicast
4. MJPEG
 - a. Image quality
 - b. Transmission type Pull, Push

E. AUDIO

- a. Input Impedance 35kΩ; Amplitude 2V [p-p]
- b. Output Impedance 600Ω; Amplitude 2V [p-p]
- c. Audio Compression G.711U
- d. Audio Mode OFF / Mic input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)

F. OPERATION

1. White Balance
2. Smart IR
3. Flip
4. Shutter speed Auto/Manual, 1 ~ 1/100000s
5. Day & Night IR-Cut Filter with Auto Switch (ICR)
6. Video Motion Detection On / Off
7. Intelligent Video Motion Detection

- | | |
|-----------------------|---|
| | Cross Line, Intrusion, Enter Area, Leave Area Detection, Motion Detection, Tampering Alarm, Audio Detection |
| 8. Privacy Zone | On / Off |
| 9. Camera Title (OSD) | Up to 20 characters |

G. NETWORK

- | | |
|----------------------------------|---|
| 1. Network Interface | 1 RJ45 10M/100M Base-TX Ethernet |
| 2. IP | IPv4 |
| 3. Supported Protocols | |
| a. IPv4 | support IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SSL/TLS, RTMP protocols |
| b. Max. User access | Up to 6 users |
| 4. Mobile Terminal Compatibility | iPad, iPhone(OS 4.2.1 or later) , Android™ mobile terminals |

H. INTERFACE

- | | |
|---------------------------|------------------------------|
| 1. External I/O Terminals | 1 Channel In 1 Channel Out |
| 2. SD memory card slot | 1 slot, micro-SD card |

I. ELECTRICAL

- | | |
|----------------------|--------------------------------|
| 1. Power Source | DC 12V±25%, PoE (IEEE 802.3af) |
| 2. Power Consumption | Max 9.0W |

J. SAFETY / EMC

- | | |
|-----------|--|
| 1. Safety | UL (IEC62368-1), CE, IEC62368-1 |
| 2. EMC | FCC (Part15 ClassA), EN55032 ClassB, EN55024 |

K. MECHANICAL

- | | |
|-----------------------|-----------------------------|
| 1. Dimensions (D x H) | Φ148 x 111mm (Ø5.8" x 4.4") |
| 2. Weight | 0.97kg (2.14lb) |

L. ENVIRONMENTAL

- | | |
|--------------------------|--------------------------------|
| 1. Ingress resistance | IP67 |
| 2. Vandal Resistance | IK10 |
| 3. Operating Temperature | -30°C ~ 60°C (-22°F ~ 140°F),, |
| 4. Operating Humidity | ≤95% RH (Non-Condensing) |