8MP PANORAMIC **BULLET NETWORK CAMERA**

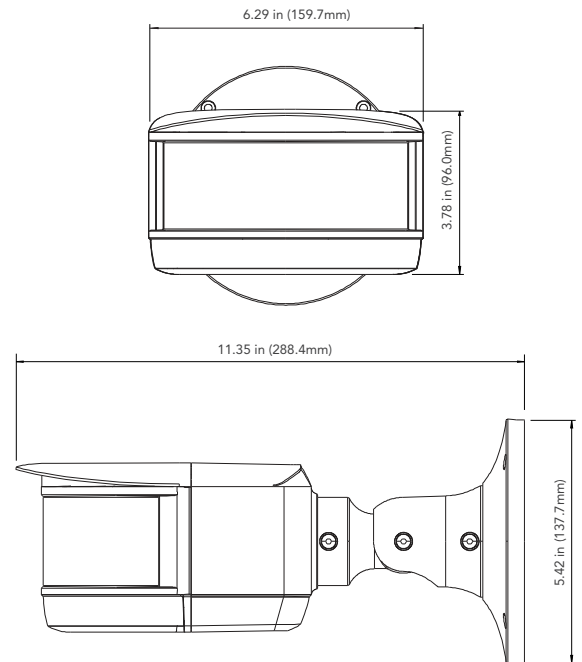*8MP PANORAMIC BULLET NETWORK CAMERA WITH 180° PANORAMIC FEATURES*

The AVYCON AVC-NBM81F180 camera is a 8MP/4K Starlight 180° Panoramic Bullet IP Camera, providing a full 180° panoramic view and an ultra-low 0.003 lux sensitivity, providing crisp color pictures even at night. This camera supports True Day and Night mode, PoE, and up to 65ft. of Smart IR Illumination. The camera also features Alarm Input/Output connections, Audio Input/ Output, a microSD slot (128GB max capacity), and is ONVIF compliant. Optional accessories for this camera include a Junction Box Mount.

FUNCTIONS

- H.265 Video Compression Technology
- 8MP (4096 × 1800) H.265 Full Real Time Encoding
- Max. resolution: 4096 × 1800
- Full 180° Panoramic View provides clear images without typical distortion of Fisheye Lens, with support for panoramic splicing
- Supports Triple Streaming
- True Day & Night ICR with Starlight
- Ultra Low Light Sensitivity of 0.003Lux@F1.2 (Color) for optimal night video
- Up to 65ft. Smart IR Illumination
- Video Analytics (Optional) : Intrusion, Line Crossing, Loitering, Tampering and Human Detection, Object Removal, Abandoned Object and People Counting
- Supports HLC, DNR, AWB, and Gain Control
- Supports microSD slot (128GB max capacity)
- Alarm Input/Output: 1/1 & Audio Input/Output: 1/1
- Supports PoE (802.3 af) and DC 12V
- Supports Smartphone, iPad, and Remote Monitoring
- IP67 Ingress Protection / IK10 Vandal Resistance
- Operating Temperature: -22°F - 140°F, less than 90% RH

DIMENSIONS

Unit : inch (mm)

6.29 in (159.7mm)

3.78 in (96.0mm)

11.35 in (288.4mm)

5.42 in (137.7mm)

OPTIONAL ACCESSORIES

AVM-MDMT-W-TL1

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AVC-NBM81F180
8MP PANORAMIC BULLET NETWORK CAMERA

CAMERA	
Image Sensor	4 x 1/2.8" Progressive Scan CMOS
Min. Illumination	Color: 0.003Lux@F1.2 B/W: 0.001Lux
Shutter Speed	1/10,000s ~ 1s
IR Distance	Up to 65ft (20m) Smart IR illumination
Day & Night	True Day/Night - ICR Filter Auto Switch
Focal Length	3.3mm
Field of View	Horizontal: ≥180°; Vertical: 80°
S/N Ratio	>50dB
Gain Control	Manual / Auto
White Balance	Manual/Auto/Indoor/Outdoor
HLC	Yes

VIDEO STREAM	
Max. Image Resolution	4096 x 1800 @ 30fps
Supported Resolutions	4096 x 1800, 3480 x 1680, 2880 x 1264, 1024 x 452, 704 x 320
Video Compression	H.265 / H.264 / MJPEG
Video Bit Rate	128Kbps ~ 16Mbps (CBR / VBR Adjustable)
Image Settings	ROI, Brightness, Saturation, Chroma, Contrast, NR; configurable through Software or Web Browser

NETWORK	
Ethernet	1 x RJ45 10M / 100M Ethernet Port
API	ONVIF
Protocol	HTTP, HTTPs, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, PPPoE, DHCP
Max Streams	Up to 10 channels Live View
Max Users	Up to 10 accounts; 3 User Levels: Administrator, Advanced User, Normal user

AUDIO	
Audio Compression	G.711A/U
Audio I/O	1 / 1

VIDEO ANALYTICS	
Basic Event	Motion Detection, Video Tampering Detection, SD Card Error, IP Conflict, Cable Disconnection
Smart Event	Object Removal Detection, Region Intrusion Detection, Abnormal Video Detection, Line Crossing Detection, People Intrusion, People Counting
Alarm Link Events	SD Card Recording, Triggering Record, Notifying Control Center, Uploading SD Card, Sending E-mail

INTERFACES	
Storage	microSD slot (128GB max capacity)
RS 485	1 Channel; Pelco-D/P protocol & Custom Protocols available
Alarm I/O	1/1

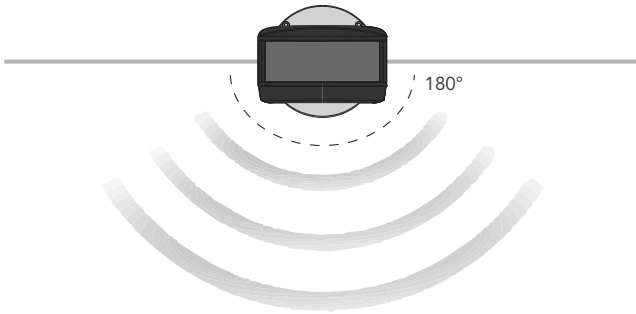| GENERAL	
Working Temperature	-30°C~60°C (-22°F~140°F)
Working Humidity	0~95% (Non-Condensing)
Power Input	DC 12V / PoE (802.3af)
Ingress Protection	IP67 Rated
Vandal Resistance	IK10
Weight	4.6lbs
Dimensions	11.35" x 5.42" x 6.29" (288mm x 138mm x 160mm)

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8MP PANORAMIC BULLET NETWORK CAMERA

180°

180° Panoramic View

The AVC-NBM81F180 Camera is designed with four CMOS 1080P sensors arranged to create a 180° Panoramic view which allows the camera to be placed centrally in most applications and be able to view footage all across the mounting surface, with little--to-no distortion that is commonly seen in fisheye cameras. The camera also allows multiple different splits of the panoramic view to accommodate for different scenario applications.

Multi-sensor Imaging System

With the implementation of 4 separate 1080p HD CMOS sensors and lenses, the AVC-NBM81F180 is capable of capturing an astounding 180° horizontal FOV with no distortion, which provides almost double the field-of-view coverage from a traditional bullet camera.

CMOS Sensor

8MP/4K (4096 × 1800) @ 30fps

The AVC-NBM81F180 supports up to an 8MP video stream by using the 4 CMOS sensors, providing a 4K High Definition video stream, which provides clear and detailed imaging of the environment, greatly increasing chances of recognition of faces, text and even license plates.

AVC-NBM81F180

Video Analytics

By leveraging the latest in video analytic technologies, the AVC-NBM81F180 supports 10 modes of advanced detection to provide the user additional methods of recognizing certain types of motion and reduces the amount of false positives that can occur with traditional motion detection algorithms.

| Advanced Motion | Tamper Detection | Line Crossing | Region Entrance | Region Exit |
| Human Detection | People Counting | Object Removed | Object Left | Abnormal Video Detection |

Starlight Technology

AVC-NBM81F180   Traditional CCTV

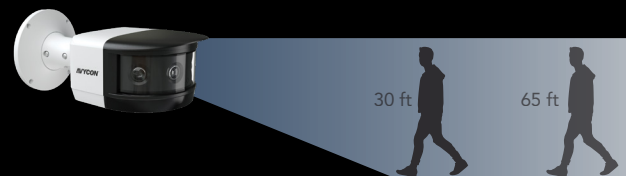AVC-NBM81F180   Traditional CCTV

Using Starlight chip technology, the AVC-NBM81F180 can capture images and video in lighting conditions down to 0.03 lux for Color mode, and down to 0.001 Lux for Black/White mode, providing a more detailed image at night and in the most demanding of lighting scenarios.

Smart IR (Up to 65ft)

Using the latest in diode technology, the IR LEDs on the AVC-NBM81F180 provide a wide viewing range up to 65ft (20m) in complete darkness. With the use of the Smart IR technology, the camera will adjust the intensity of the IR LEDs to ensure subjects are never overexposed with IR lighting, and capturing greater detail at night.
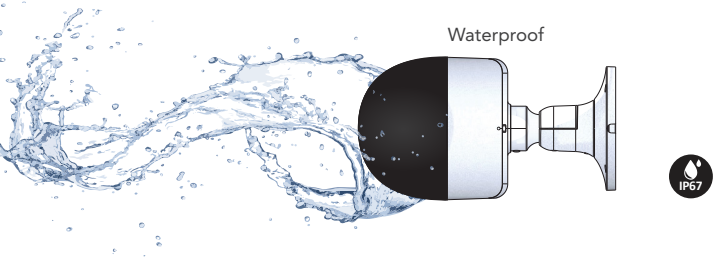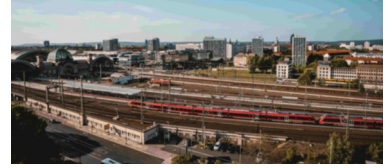
30 ft   65 ft

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Advanced H.265+ Compression

By implementing the latest in H.265 technology + IFS™ (Inactive Frame Shaving), this camera can produce even greater image quality in comparison to H.264 technology, while using up to 50% less storage and streaming bandwidth, potentially increasing storage times and also reducing latency when viewing video on mobile devices.

H.625+

H.624

Waterproof

IP67

Weatherproof Rated

The body of the AVC-NBM81F180 camera is designed to meet the full specifications of the IP67 rating, which provides one of the highest ratings against rain and dust which affords the camera to be placed in almost any outdoor application.

Multiple Image Modes

When integrated with AVYCON recorders or through the web interface, the AVC-NBM81F180 camera's panoramic view can be combined or split in different image configurations to allow the operator to visualize the complete view coming from the camera to suit their needs.

ROI ON   ROI OFF

Region of Interest (ROI)

The AVC-NBM81F180 supports enabling up to 8 Region of Interest areas, which allows the user to assign certain areas within the view of the camera to produce a higher quality picture compared to the rest of the frame, allowing efficient use of storage and bandwidth and can allow clearer captures of faces and license plates.

Edge Recording

For standalone use or for backup purposes in the event that your recorder loses power, the AVC-NBM81F180 supports the use of microSD storage (max. 128GB) to allow you to record based off a timed schedule or by motion, alarm or video analytic events.

Multiple Power Sources

PoE   12V

The AVC-NBM81F180 features the ability to be powered by both a 12VDC power supply or by an 802.3af PoE switch or port, which can reduce the cabling needed for each camera to just a single CAT5 (or higher) network cable.

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