MEGApix®
IP Cameras

4K vandal dome IP camera with facial recognition and video analytics, and built-in white light illumination.
DWC-MSDG08BW



Summary

This NDAA-compliant MEGApix 4K vandal dome IP camera operates in either facial recognition or video analytics mode. Facial recognition mode supports a database of 10,000 unique faces stored on internal flash memory, while recognition and data comparison require a dedicated microSD card in the camera (required, not included). Built-in white light illumination captures vivid colors and fine details in 4K, day or night. Two-way audio helps operators communicate directly with people at the camera, while an IP67-, IK-10-rated housing and DW's 5-year warranty provide dependable performance and long-term confidence for security installations.

Features

- 4K 1/1.8" image sensor at real-time 30fps captures smooth, ultra-high-resolution video for confident identification and forensic review.
- Selectable facial recognition or video analytics mode supports identification, detection and tracking, with one mode active at a time.
- On-camera database of up to 10,000 unique faces stores facial records for identification in facial recognition and comparison mode.
- Local microSD slot supports cards from 16GB-1TB. Card not included. Required for face recognition and comparison to the internal database.
- Object, human and vehicle classification in video analytics mode focuses attention on relevant activity and helps reduce nuisance alarms.
- 24/7 full-color imaging with built-in 65' white light illumination coverage preserves useful color details after dark to help identify people, clothing and vehicles.
- 2.8mm fixed lens provides a wide field of view for broad coverage of entrances, walkways and open areas.
- COVA IdentiSee and DW Spectrum IPVMS smart search detect faces in facial recognition mode, and persons and vehicles in video analytics mode to help operators classify and verify activity efficiently.
- True Wide Dynamic Range (WDR) balances bright and dark areas for clearer images in challenging lighting.
- Simultaneous streaming with multiple codec options optimizes bandwidth and storage for different viewing and recording needs.
- Line crossing, perimeter intrusion and tampering in video analytics mode alert operators to defined security events for faster intervention.
- Two-way audio with a built-in microphone enables direct communication between operators and people at the camera location.
- Alarm sensor input and relay output integrate with access control and other devices to automate security responses.
- PoE and 12VDC power options support flexible installation, including simplified single-cable deployment with PoE.
- NDAA compliance supports deployment in federal, government and other compliance-sensitive projects.
- IP67- and IK10-rated camera housing protects the camera for dependable operation in demanding environments.
- 5-year warranty provides long-term product protection and confidence in the investment.

Mounting accessories (Optional)



DWC-MV9CMJ
Ceiling mount bracket and junction box



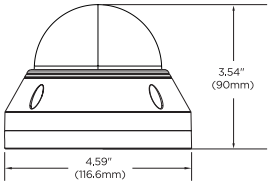
DWC-MV9JUNC
Junction box



DWC-MTTWM
Wall mount bracket

Dimensions

unit: Inch (mm)



Specifications

IMAGE	
Image sensor	4K 1/1.8" CMOS sensor
Total pixels	3840 (H) × 2160 (V)
Minimum scene illumination	0.0005 lux (color) 0 lux (B/W)
Color temperature	6000K
WL wavelength (lumen)	150 lm
S/N ratio	≥50dB
LENS	
Focal length	2.8 mm, F1.0
Lens type	Fixed lens
Horizontal Field of view (HFoV)	110°
Illumination type	2 white light LEDs
Illumination distance	65ft range
I/O	
Audio input/output	1 audio input and 1 microphone built-in/ 1 output
Audio compression	G.711A / U
Alarm input/output	1 input/1 output
INTELLIGENT VIDEO ANALYTICS	
AI-based analytics	Classification of human, vehicle, motorcycle, bicycle and face detection and tracking.
Analytics filters	Line crossing, perimeter intrusion, tampering, object classification, and face recognition.
OPERATIONAL	
Shutter mode	Auto, manual
Shutter speed	1/30s ~ 1/100000s
Auto gain control	Auto
Day and night	Color only
3D Digital Noise Reduction	3D DNR
Wide Dynamic Range (WDR)	True WDR, 120dB
White balance	Yes
Privacy zones	4 programmable privacy masks
Backlight compensation (BLC)	Yes
Mirror and flip	Yes
Alarm notifications	Notifications via email or FTP server
Memory slot	Micro SD, SDHC and SDXC cards 16GB-1TB. Card is not included: REQUIRED for face recognition operation.
NETWORK	
LAN	802.3 compliance 10/100 LAN
Video compression type	H.265, H.264+, MJPEG
Resolution	4K/8MP (3840×2160)
Main Stream	4K, 6MP, 4MP, 2K/1080p
Sub Stream	2.1MP/1080p (1-15fps), 720P, D1, 640 ×360
Third Stream	720P, D1, 640 ×360, VGA, CIF, 480×240
Frame rate	Up to 30fps at all resolutions
Video bitrate	32 Kbps ~ 12 Mbps
Bitrate control	Multi-streaming CBR/VBR at H.264/ H.265 (controllable frame rate and bandwidth)
Streaming capability	Triple Streaming
IP	IPv4, IPv6
Protocol	DHCP, Port, RTSP, RTMP, DDNS, SNMP,SMTP, FTP, HTTP POST, 802.1x, UPnP, HTTPs, QoS
Security	IP filtering, MAC filtering, authentication (ID/PW), SSL/ TLS
ONVIF conformance	Yes
Web viewer	OS: Windows OS, Mac OS, Linux OS Browser: Microsoft Edge, Google Chrome, Mozilla Firefox, Safari
Video management software	DW Spectrum, COVA
ENVIRONMENTAL	
Startup & operating temperature	-22°F ~ 140°F (-30°C ~ 60°C)
Operating humidity	0–95% RH (non-condensing)
IK/IP rating	IK10/ IP67-rated
Other certifications	FCC, CE, ROHS, ONVIF, NDAA
ELECTRICAL	
Power requirement	DC 12V, PoE, adapter not included
Power consumption	< 7.5W
MECHANICAL	
Material	Metal vandal dome, polycarbonate domes
Dimensions	4.6" x 3.54" (117 × 90mm)
Weight	1.41 lbs (640gr)
Warranty	5 year warranty

Built for Users.™

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