Dimensions
Unit: Inch (mm)

Specifications

Summary

This NDAA/TAA-compliant MEGApix® Ai™ wall-mounted IP camera delivers 4K resolution at real-time 30fps with an edge AI engine, bringing deep learning capabilities to your fingertips. The 2.3mm ultra-wide lens provides edge-to-edge clarity without pixel loss, and a 45° angle mount makes the camera suitable for long and narrow installations.

Features

- 4K sensor at real-time 30fps
- Star-Light Plus™ color in near-total darkness technology.
- AI Deep Learning object detection.
- Create up to 40 separate detection zones.
- Easy setup with no manual analytics calibration.
- Seamless integration and control with DW Spectrum®.
- Reduce false alarms with multiple detection zones and logical rules.
- Increase your recording storage with smart recording and no false alarms.
- Angle bracket included for a 45° installation that covers even areas near the camera.
- 2.3mm ultra-wide view lens for edge-to-edge image clarity without pixel loss
- True Wide Dynamic Range (WDR) for clear images in challenging light
- Simultaneous streaming and multiple codec options for smart bandwidth management
- 100' Smart IR™ with intelligent camera sync for clear B/W images with no need for external light
- Smart DNR™ 3D digital noise reduction reduces noise and ghosting for motion in low-light environments.
- Privacy zones cover sensitive areas in the camera's field of view.
- Two-way audio with a built-in microphone for direct communication between the monitoring station and the camera's location.
- Local SD card slot for local recording in case of network loss.
- Alarm sensor input and relay output for access control integration
- Web server built-in for easy camera management from any browser
- PoE and DC12V for single cable simplified installation
- NDAA/TAA compliant for federal and government projects
- IP67- and IK10-rated camera housing built to last
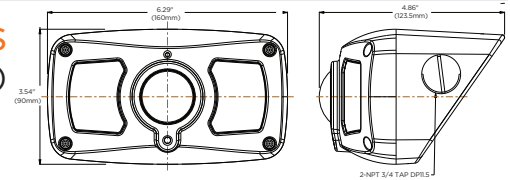- 5 year warranty

Accessories (optional)

DWC-PMB-WLW Pole mount bracket	DWC-V1CNMW Corner mount

IMAGE	
Image sensor	8.48MP 1/1.8" Star-Light Plus™ sensor
Total pixels	3856(H) X 2200(V)
Active pixels	3840(H) X 2160(V)
Minimum scene illumination	0.15 lux (color) 0 lux (B/W)
S/N ratio	50d
Test monitor video output	Local video output CVBS 1.0V p-p (75Ω), 16:9 aspect ratio
LENS	
Focal length	2.3mm, F2.8
Lens type	Fixed lens
Field of view	Horizontal: 175° / Vertical: 80°
IR distance	100ft range
I/O	
Audio input/output	1 line input (1.0Vms, 3K ohm), 1 microphone built-in (1 selectable at a time)/1 output
Audio compression	G.711 ulaw
Alarm input/output	1 input/1 output
Event trigger	Motion alarm, network loss, temperature anomaly, illegal login, schedule, sensor detection
INTELLIGENT VIDEO ANALYTICS	
Deep learning analytics	Deep Learning object tracking
Analytics filters	Zones and lines, tamper, metadata, intrusion, line crossing, counting, counting lines, appear, disappear, stopped, enter, exit, direction, tailgating, dwell, logical rules
OPERATIONAL	
Shutter mode	Auto, manual, anti-flicker, slow shutter
Shutter speed	1/15 ~ 1/32000
Slow shutter	1/2,1/3,1/5,1/6,1/7.5, 1/10
Auto gain control	Auto
Day and night	Auto, day (color), night (B/W)
3D Digital Noise Reduction	Smart DNR™ 3D-DNR
Wide Dynamic Range (WDR)	True WDR, 120dB
White balance	Yes
Mirror and flip	Yes
Alarm notifications	Notifications via email, FTP, alarm output, SD card recording
Memory slot	Micro SD/SDHC/SDXC class 10 card (not included)
NETWORK	
LAN	1000Base-T (1Gbps)
Video compression type	H.265, H.264, MJPEG
Resolution	H.265, H.264: 3840x2160, 2560x1440, 1920x1080, 1280x720, 704x576, 704x480, 640x360, 352x288, 352x240 MJPEG: 1920x1080, 1280x720, 768x432, 704x576, 704x480, 640x360, 352x288, 352x240
Frame rate	Up to 30fps at all resolutions
Video bitrate	100Kbps ~ 25Mbps, multi-rate for preview and recording
Bitrate control	Multi-streaming CBR/VBR at H.264, H.265 (controllable frame rate and bandwidth)
Streaming capability	Triple Streaming (3rd stream MJPEG only)
IP	IPv4
Protocol	TCP/IP, UDP, AutoIP, RTP(UDP/TCP), RTSP, NTP, HTTP, HTTPS, SSL, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMPv1/v2/v3(MIB-2), ONVIF
Security	HTTPS (TLS), IP filtering, 802.1x, digest authentication
ONVIF conformance	Yes
Web viewer	OS: Windows® 7, Windows® 8, Windows® 10 Browser: Microsoft Edge®, Google Chrome®, Mozilla Firefox®, Safari®
VMS	DW Spectrum®
ENVIRONMENTAL	
Operating temperature	-4°F ~ 122°F (-20°C ~ 50°C)
Operating humidity	10~90% RH, (non-condensing)
IK rating	IK10 impact-resistant
IP rating	IP67-rated
Other certifications	CE, FCC, RoHS, UL, NDAA, TAA
ELECTRICAL	
Power requirement	DC12V, PoE, adapter not included
Power consumption	DC12V: max 9.6W, 800mA, PoE: max 11.6W, 42mA
MECHANICAL	
Material	Aluminum die-casting bullet housing
Dimensions	6.29" x 4.86" x 3.54" (160 x 123.5 x 90mm)
Weight	2.2 lbs (1 kg)
Warranty	5 year warranty

Built for Users™

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