MEGApix Ai™
Next-generation video analytics

Two bullet IP camera with built-in audio, AI engine and IR on one junction box
DWC-XDBJ10Mi



Summary

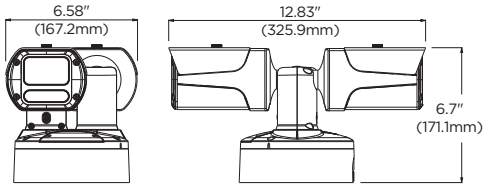
This NDAA/TAA-compliant MEGApix Ai two-bullet IP camera, housed in one junction box, delivers two 5MP views, powered by an advanced AI engine on one channel, and two-way audio with a built-in microphone and speaker. Dual, easily adjustable sensor design and an integrated junction box reduce installation time and simplify setup. The camera is built for demanding environments, featuring IP67 and IK10 ratings, and reliable cold-start performance down to -40°F/-40 °C.

Features

- 2x 5MP cameras housed in one junction box for a total of 10MP
- Star-Light Plus color in near-total darkness technology.
- AI-based object and people detection, classification and tracking.
- 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.
- Dual-sensor bullet camera, two cameras in one installation
- Junction box built-in for easy cable adjustment and simplified installation
- 180° hallway and 90° corner coverage with a single camera installation
- 2x Vari-focal p-iris lens with motorized zoom and autofocus for complete remote lens control and a focused image any time.
- True Wide Dynamic Range (WDR) for clear images in challenging light
- Simultaneous streaming and multiple codec options for smart bandwidth management
- Cold Start -40°F (-40°C), allowing the camera to power up in extremely cold environments
- 110' Smart IR with intelligent camera sync for clear B/W images with no need for external light
- Privacy zones cover sensitive areas in the camera's field of view.
- Two-way audio with built-in microphone and speaker 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

Dimensions

Unit: Inch (mm)



Specifications

IMAGE	
Image sensor	1/2.8" 5.17M Star-Light Plus™ sensors (x2)
Total pixels	2608(H) X 1984(V) (x2)
Active pixels	2592(H) X 1944(V) (x2)
Minimum scene illumination	0.04 lux (color), 0 lux (B/W)
S/N ratio	50dB
Test monitor video output	Local video output CVBS 1.0V p-p (75Ω), 4:3 aspect ratio
LENS	
Focal length	2.7-13.5mm, F1.4 (x2)
Lens type	Vari-focal p-iris lens with motorized zoom and auto-focus
Field of view (HFoV/VFoV)	HFoV: 31.6°-98.3° (x2) / VFoV: 23.5°-70.8° (x2)
IR distance	110ft range
Optical zoom	5x optical zoom
I/O	
Audio input/output	1 line input (1.0Vms, 3K ohm), 1 microphone built-in (1 selectable at a time)/1 output, 1 speaker built-in
Audio compression	G.711 ulaw
Alarm input/output	1 input/1 output
INTELLIGENT VIDEO ANALYTICS (AVAILABLE ON ONE CHANNEL)	
AI-based video analytics	AI-based object and people detection, classification and 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	Auto
Privacy zones	16 programmable privacy masks
Mirror and flip	Yes
Alarm notifications	Notifications via email, FTP, alarm output and SD card recording
Memory slot	Micro SD/SDHC/SDXC class 10 card (not included)
NETWORK	
LAN	RJ45 (10/100Base-T)
Video compression type	H.265, H.264, MJPEG
Resolution	H.265, H.264: 2592x1944, 2560x1440, 1920x1080, 1280x720, 800x600, 704x576, 704x480, 640x480, 640x360, 352x288, 352x240 (x2) MJPEG: 1920x1080, 1280x720, 800x600, 768x432, 704x576, 704x480, 640x480, 640x360, 352x288, 352x240 (x2)
Frame rate	Up to 30fps (NOTE: When resolution on both videos is 2592x1944 max frame rate is 15fps)
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 OS, Mac OS, Linux OS Browser: Microsoft Edge, Google Chrome, Mozilla Firefox, Safari
Video management software	DW Spectrum
ENVIRONMENTAL	
Operating temperature	-40°F ~ 122°F (-40°C ~ 50°C)
Operating humidity	10–90% RH, (non-condensing)
IK / IP rating	IK10 impact-resistant / IP67-rated
Other certifications	CE, FCC, UL, NDAA, TAA
ELECTRICAL	
Power requirement	DC12V, PoE, adapter not included
Power consumption	12V DC: max 17.4W, 1.45A, PoE: max 20.6W, 429mA
MECHANICAL	
Material	Aluminum die-casting bullet housing
Dimensions	12.83" x 6.73" (325.9 x 171.1mm)
Weight	7.05 lbs (3.2 kg)
Warranty	5 year warranty

Built for Users.™

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REV. 11/26

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