MEGAPIX Ai™
Next-generation video analytics

5MP low-profile dome IP camera
with AI and color in near-total darkness
DWC-XSDH05Mi

AI INSIDE · **STAR-LIGHT PLUS™** · **H.265** H.264/MJPG · **30fps** · **NDAA/TAA COMPLIANT PRODUCT**

Dimensions
Unit: Inch (mm)

3.93" (100mm)
2 x 0.11" (3mm)
4.29" (109mm)

Specifications

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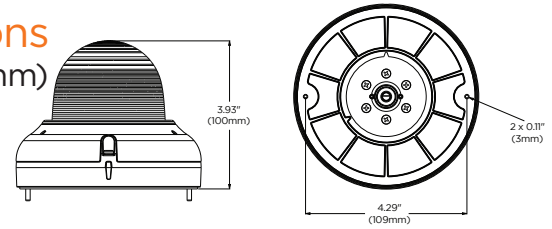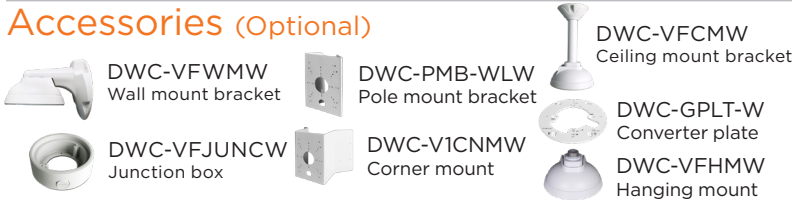
Summary

This NDAA/TAA-compliant MEGApix® Ai™ low-profile vandal dome IP camera provides 5MP resolution at real-time 30fps with an edge AI engine onboard, placing the power of AI deep learning at your fingertips, with object detection and people tracking. The camera features Star-Light Plus™ color in near-total darkness and a vari-focal lens in an IP67-rated, IK10-rated housing.

Features

- 5MP 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 calibration
- Seamless integration and control with DW Spectrum® IPVMS.
- Reduce false alarms with multiple detection zones and logical rules.
- Increase your recording storage with smart recording and no false alarms.
- Separate IR LEDs cover for zero IR reflection.
- 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
- 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
- High-power 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-VFWMW Wall mount bracket
DWC-PMB-WLW Pole mount bracket
DWC-VFCMW Ceiling mount bracket
DWC-VFJUNCW Junction box
DWC-V1CNMW Corner mount
DWC-GPLT-W Converter plate
DWC-VFHMW Hanging mount

IMAGE	
Image sensor	1/2.8" 5.17M Star-Light Plus™ sensor
Total pixels	2608(H) X 1984(V)
Active pixels	2592(H) X 1944(V)
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), 16:9 aspect ratio
LENS	
Focal length	2.7-13.5mm, F1.4
Lens type	Vari-focal p-iris lens with motorized zoom and auto-focus
Field of view (HFoV/ VFoV)	31.6°-98.3° / 23.5°-70.8°
IR distance	100ft range
Optical zoom / digital zoom	5x optical zoom
I/O	
Audio input/output	1 microphone built-in/1 line 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
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
	MJPEG: 1920x1080, 1280x720, 800x600, 768x432, 704x576, 704x480, 640x480, 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.265 (controllable frame rate and bandwidth)
Streaming capability	Triple Streaming (3rd stream MJPEG only)
IP	IPv4
Protocol	TCP/IP, UDP, Auto IP, 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®, Mac® OS, Linux®
	Browser: Microsoft Edge®, Google Chrome®, Mozilla Firefox®, Safari®
Video management software	DW Spectrum® IPVMS
ENVIRONMENTAL	
Operating temperature	-4°F ~ 122°F (-20°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	DC: max 8.5W, PoE: max 11W
MECHANICAL	
Material	Aluminum die-casting vandal housing, polycarbonate dome
Dimensions	4.92" x 3.93" (125 x 100mm)
Weight	0.63kg
Warranty	5 year warranty

Built for Users™.
DW

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