MEGApix® Ai PANO™

Panoramic View IP Cameras with Next Generation Video Analytics

8K/32MP Multi-Sensor IP Camera with Ai
DWC-XMDF32H



Summary

This NDAA/TAA-compliant MEGApix Ai panoramic, multi-sensor IP camera delivers a total 32MP 180° view with built-in AI that detects, classifies and tracks people and objects. The camera does the work of multiple single-sensor cameras from one installation, delivering both unprecedented wide views and details.

Features

- 4x 8.48MP 1/1.8" image sensor at real-time 30fps
- 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 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.
- 32MP, 4x 4K sensor 180° panoramic view IP camera
- Easy image alignment and stitching
- 4x 9.0mm fixed lens
- True Wide Dynamic Range (WDR) for clear images in challenging light
- Simultaneous streaming and multiple codec options for smart bandwidth management
- Smart DNR 3D digital noise reduction minimizes noise and ghosting in motion, particularly in low-light environments.
- Privacy zones cover sensitive areas in the camera's field of view.
- Two-way audio for direct communication between the monitoring station and the camera's location.
- 4 local SD card slots 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 (PoE injector included)
- NDAA/TAA compliant for federal and government projects
- IP67- and IK10-rated camera housing built to last
- 5 year warranty

Mounting accessories (Required. Sold separately.)

DWC-PV20JUNCW
Junction box

DWC-PV20CMW
Ceiling mount bracket

DWC-PV20WMW
Wall mount bracket

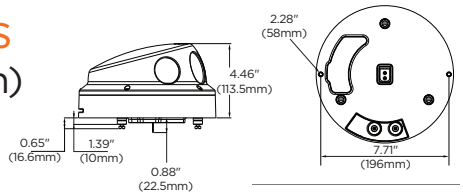
DWC- V1CNMW
Corner mount

DWC-PMB-WLW
Pole mount

DWC-PV20ADPW
Tilting adapter for DWC-PZPARAM

DWC-PZPARAMW2
Parapet mount
(DWC-PV20ADPW required. Purchased separately)

Dimensions
Unit: Inch (mm)



Specifications

IMAGE	
Image sensor	4x 1/1.8" 8.48MP Star-Light Plus™ sensor
Total pixels	4x 3856(H) X 2200(V)
Active pixels	4x 3840(H) X 2160(V)
Minimum scene illumination	0.13 lux (color) 0.007 lux (B/W)
S/N ratio	50dB
Test monitor video out	Local video output CVBS 1.0V p-p (75Ω), 4:3 aspect ratio
LENS	
Focal length	4x 9.0mm, F2.6
Lens type	Fisheye Lens
Field of view	HFoV: 4x 46.6°, over 180° combined, VFoV: 27.1°
I/O	
Audio input/output	1 line input (1.0Vms, 3K ohm)/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, tamper detection
INTELLIGENT VIDEO ANALYTICS	
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
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	4x Micro SD/SDHC/SDXC class 10 card (not included)
NETWORK	
LAN	RJ45 10/100/1000Base-T (1Gbps)
Video compression	H.265, H.264, MJPEG
Resolution	4x H.265, H.264: 3840x2160, 2560x1440, 1920x1080, 1280x720, 704x576, 704x480, 640x360, 352x288, 352x240 4x 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	4x 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
VMS	DW Spectrum
ENVIRONMENTAL	
Operating temperature	-22°F ~ 122°F (-30°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 31.6W, 2.63A, PoE: Max 35.2W, 733mA
MECHANICAL	
Material	Aluminum vandal housing, polycarbonate lens cover
Dimensions	8.26" x 5.35" (210 x 136mm)
Weight	6.6 lbs (3 kg)
Warranty	5 year warranty

Built for Users.™

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