MEGAPIX IVA+
IP cameras with Intelligent Video Analytics

IVA+ Inside

2.8mm FIXED LENS

STAR-LIGHT PLUS
Color in Darkness Technology

H.265 H.264/MJPEG **30fps**

4K ULTRA HD

NDAA COMPLIANT PRODUCTS

4K Resolution	Intelligent Video Analytics (IVA+)	Star-Light Plus™	2.8mm Fixed Lens	True WDR

Dimensions
Unit: Inch (mm)

3.01″ (76.6mm) · 2.87″ (73mm) · 3.62″ (92mm) · 1.44″ (36.8mm) · 4° · 29.5° · 4.29″ (109mm) · 4.92″ (125mm) · 0.25″ (6.4mm) · 3.58″ (91mm)

Summary

This MEGApix® IVA+™ IP camera is your gateway to powerful video analytics features. It is NDAA compliant and provides 4K resolution at real-time 30fps. The MEGApix IVA+ cameras have a powerful engine to detect and classify people, vehicles and objects in real-time with support for logical rules. This camera features Star-Light Plus™ color in near-total darkness technology for quality video in any lighting condition, simultaneous H.265/H.264/MJPEG codec support and a 2.8mm fixed lens. The IP67-rated, IK-10 impact-resistant vandal housing features CleanView™ self-cleaning dome treatment. All MEGApix cameras are ONVIF conformant, assuring their successful integration with any open platform solution on the market.

Features

- 4K 1/2.8″ image sensor at real-time 30fps
- Star-Light Plus™ color in near-total darkness technology
- Intelligent Video Analytics (IVA) with extended features (IVA+)
- Seamless integration and control of IVA rules with DW Spectrum® IPVMS
- Reduce false alarms
- Increase your recording storage with logic rules and smart recording
- 2.8mm fixed lens
- True Wide Dynamic Range (WDR)
- Triple codecs (H.265, H.264, MJPEG) with simultaneous streaming
- 100′ Smart IR™ with intelligent camera sync
- CleanView™ hydrophobic dome coating repels water, dust and grease
- Smart DNR™ 3D digital noise reduction
- True day/night with mechanical IR cut filter
- Programmable privacy zones
- Auto gain control (AGC)
- Backlight compensation (BLC)
- Auto white balance (AWB)
- Motion detection
- Two-way audio
- Micro SD/SDHC/SDXC class 10 card slot (card not included)
- Alarm sensor input
- Relay output
- Web server built-in
- PoE class 3 and DC12V
- ONVIF conformant, profile S
- NDAA compliant
- IP67 dust-tight and waterproof to 3 feet
- IK 10-rated impact-resistant
- 3 year warranty

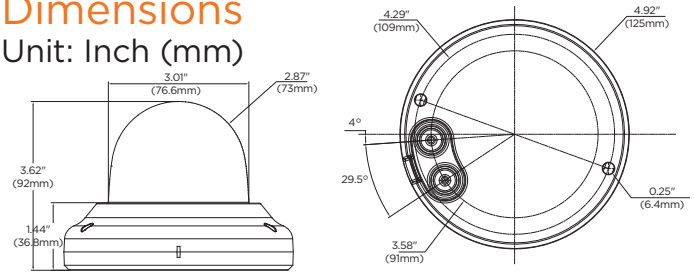## Accessories (Optional)

DWC-VFWMW Wall mount bracket	DWC-VFJUNCW Junction box	DWC-VFCMW Ceiling mount bracket

Specifications

IMAGE	
Image sensor	4K 1/2.8″ CMOS sensor
Total pixels	3952 (H) x 2320 (V)
Active pixels	3840 (H) X 2160 (V)
Minimum scene illumination	0.18 lux (color) / 0 lux (B/W)
S/N ratio	50dB
Video output	Local video output CVBS 1.0V p-p (75Ω), 4:3 aspect ratio
LENS	
Focal length	2.8mm, F2.0
Lens type	Fixed lens
Horizontal Field of view (HFoV)	105.5°
Vertical Field of view (VFoV)	56.3°
IR distance	100ft range
I/O	
Audio in out	1/1
Audio compression	G.711
Alarm in/out	1/1
OPERATIONAL	
Intelligent Video Analytics	IVA license: intrusion, line crossing, counting line, loitering, enter, exit, tamper
	IVA+ license: object removed, tailgating, direction, stopped, appear, disappear, object left, logical rules
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)
Smart DNR™ 3D Digital Noise Reduction	3D-DNR
Wide Dynamic Range (WDR)	True WDR
Wide Dynamic Range (WDR) dB	120dB
White balance	Yes
Privacy zones	16 programmable privacy masks
Backlight compensation (BLC)	Yes
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	1000Base-T (1Gbps)
Video compression type	H.265, H.264, MJPEG
Resolution	H.265: QFHD, 2.1MP/1080p, 720p, VGA, D1, CIF H.264: QFHD, 2.1MP/1080p, 720p, VGA, D1, CIF MJPEG: 2.1MP/1080p, 720p, 800x600, VGA, 768x432, D1, CIF
Frame rate	Up to 30fps at all resolutions
Video bitrate	100Kbps ~ 10Mbps, multi-rate for preview and recording
Bitrate control	Multi-streaming CBR/VBR at H.265 (controllable frame rate and bandwidth)
Streaming capability	Dual-stream at different rates and resolutions
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 authetication
ONVIF conformance	Yes
Web viewer	OS: Windows® 7, Windows® 8, Windows® 10 / Browser: IE, Chrome, Firefox
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 rating	IK10 impact-resistant
IP rating	IP67-rated
Other certifications	CE, FCC, RoHS
ELECTRICAL	
Power requirement	DC12V, PoE IEEE 802.3af Class 3 (Adapter not included)
Power consumption	DC12V: 10W / PoE: 13W
MECHANICAL	
Material	Aluminum vandal housing, polycarbonate dome
Dimensions	4.92″ x 3.62″ (125 x 92mm)
Weight	1.14 lbs (0.52 kg)
Warranty	3 year warranty

ONVIF

123-010   Digital Watchdog DW DWC-MVC8Wi28TW 8MP Vandal Dome 2.8mm