

# MEGAPIX<sup>™</sup> IVA GALAXY<sup>™</sup>

4K color in near-total darkness vandal ball IP camera with IVA  
DWC-MVD8WiATW



## Summary

This MEGAPIX<sup>®</sup> IVA<sup>™</sup> Galaxy 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 and vehicles in real-time. IVA+ license upgrade offers advanced Video Content Analysis detection capabilities. This camera features Star-Light Plus<sup>™</sup> color in near-total darkness technology for quality video in any lighting condition, simultaneous H.265/H.264/MJPEG codec support and a 2.7-13.5mm vari-focal auto-focus lens with motorized zoom and 5x optical zoom. The Galaxy weather-resistant vandal ball cameras are IP66-rated, eliminate IR reflections, offer easy angle adjustment for optimal image quality and easy access to the camera's control board from the base of the camera. 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<sup>™</sup> color in near-total darkness technology
- Intelligent Video Analytics (IVA)
- Extended Intelligent Video Analytics (IVA+ license required)
- Seamless integration and control of IVA rules with DW Spectrum<sup>®</sup> IPVMS
- Reduce false alarms
- Increase your recording storage with logic rules and smart recording
- 2.7-13.5mm vari-focal p-iris lens with motorized zoom and auto-focus
- True Wide Dynamic Range (WDR)
- Triple codecs (H.265, H.264, MJPEG) with simultaneous streaming
- 100' Smart IR<sup>™</sup> with intelligent camera sync
- Galaxy<sup>™</sup> vandal ball camera
- Smart DNR<sup>™</sup> 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
- IP66 environmental-rated dust-tight and water-resistant
- IK 9-rated impact-resistant
- 5 year warranty



## Accessories (Optional)



DWC-V1CNMW  
Corner mount



DWC-VFCMW  
Ceiling mount bracket



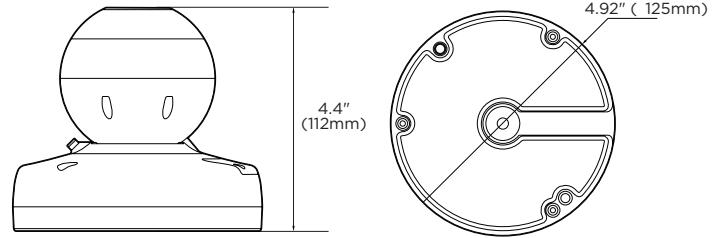
DWC-VFJUNCW  
Junction box



DWC-VFWMW  
Wall mount bracket

## Dimensions

Unit: Inch (mm)



## Specifications

| IMAGE   |   |
|---|---|
| Image sensor                                      | 4K 1/2.8" CMOS sensor   |
| Total pixels                                      | 3864(H) x 2228(V)   |
| Active pixels                                     | 3840 (H) X 2160 (V)   |
| Minimum scene illumination                        | 0.09 lux (color)<br>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                                      | 2.7-13.5mm, F1.4  |
| Lens type   | Vari-focal p-iris lens with motorized zoom and auto-focus   |
| Horizontal Field of view (HFOV)                   | 33.1°-90.3°   |
| Vertical Field of view (VFOV)                     | 18.9°-49°   |
| IR distance                                       | 100ft range   |
| Optical zoom                                      | 5x optical zoom   |
| 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<br>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, 1/10   |
| Auto gain control                                 | Auto  |
| Day and night                                     | Auto, day (color), night (B/W)  |
| Smart DNR <sup>™</sup> 3D Digital Noise Reduction | 3D-DNR  |
| Wide Dynamic Range (WDR)                          | True WDR, 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 (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<br>H.264: QFHD, 2.1MP/1080p, 720p, VGA, D1, CIF<br>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 authentication  |
| ONVIF conformance                                 | Yes   |
| Web viewer  | OS: Windows <sup>®</sup> , Mac <sup>®</sup> OS, Linux <sup>®</sup><br>Browser: IE, Chrome, Firefox  |
| Video management software                         | DW Spectrum <sup>®</sup> IPVMS  |
| ENVIRONMENTAL                                     |   |
| Operating temperature                             | -4°F - 122°F (-20°C - 50°C)   |
| Operating humidity                                | 10-90% RH, (non-condensing)   |
| IK rating   | IK9 impact-resistant  |
| IP rating   | IP66-rated  |
| Other certifications                              | CE, FCC, RoHS   |
| ELECTRICAL  |   |
| Power requirement                                 | DC12V, PoE IEEE 802.3af Class 3 (Adapter not included)  |
| Power consumption                                 | DC12V 12.4W<br>PoE 14.9W  |
| MECHANICAL  |   |
| Material  | Aluminum ball housing   |
| Dimensions  | 4.92" x 4.4" (125 x 112mm)  |
| Weight  | 1.87 lbs (0.85 kg)  |
| Warranty  | 5 year warranty   |

