# MEGApix. IVA+™
### IP cameras with Intelligent Video Analytics

**9MP color in near-total darkness fisheye IP camera with IVA+**
## DWC-PPVF9Di2TW

**IVA+ Inside**

**2.1mm FISHEYE LENS**

**DW**

**STAR-LIGHT PLUS™**
*Color in Darkness Technology*

**H.265** H.264/MJPEG

**30fps**

**NDAA COMPLIANT PRODUCTS**

| **9MP** Resolution | **Intelligent Video Analytics (IVA+)** | **Star-Light Plus™** | **360° 180° Panoramic View** | **2.1mm Fisheye Lens** | **5YEAR** Warranty |
|---|---|---|---|---|---|

## Summary

This MEGApix® IVA+™ 9MP 360° view fisheye outdoor IP camera with IR is your gateway to powerful video analytics features. It is NDAA compliant and can monitor an entire area, providing ultimate ROI. 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's 2.1mm fisheye lens provides edge-to-edge image clarity producing 9MP panoramic images at real-time 30fps. Star-Light Plus™ color in near-total darkness technology ensures quality video in any lighting condition. The camera also offers simultaneous H.265/H.264/MJPEG codec support in an IP66 vandal-resistant, discrete housing. The camera is optimized to work with the DW Spectrum® IPVMS instant dewarping feature.

## Features

- 9MP 1/1.7 image sensor at real-time 30fps
- Star-Light Plus™ color in near-total darkness technology
- Intelligent Video Analytics (IVA) with extended features (IVA+)
- Support 360° hemispheric fisheye view and 360°, 180° and 90° panoramic view
- Edge-to-edge image clarity
- Reduce false alarms
- Increase your recording storage with logic rules and smart recording
- Seamless integration and control of IVA rules with DW Spectrum® IPVMS
- 2.1mm fisheye lens
- Triple codecs (H.265, H.264, MJPEG) with simultaneous streaming
- 360° 80' Smart IR™ with intelligent camera sync.
- Smart DNR™ 3D digital noise reduction
- True day/night with mechanical IR cut filter
- Auto gain control (AGC)
- Backlight compensation (BLC)
- Auto white balance (AWB)
- Motion detection
- Two-way audio
- Micro SD/SDHC class 10 card slot (card not included)
- Alarm sensor input and relay output
- PoE class 3 and DC12V
- UL listed
- NDAA compliant
- IP66 environmental-rated dust-tight and water-resistant
- IK 9-rated impact-resistant
- 5 year warranty

**ONVIF**

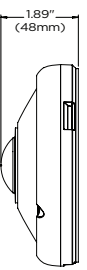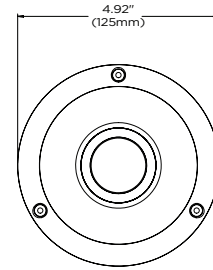## Accessories (Optional)

**DWC-V1CNMW** Corner mount

**DWC-VFJUNCW** Junction box

**DWC-VFCMW** Ceiling mount bracket

**DWC-VFWMW** Wall mount bracket

## Dimensions
Unit: Inch (mm)

4.92" (125mm)    1.89" (48mm)

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## Specifications

| IMAGE | |
|---|---|
| Image sensor | 12.4MP 1/1.7" CMOS |
| Total pixels | 4000 (H) X 3000 (V) |
| Minimum scene illumination | 0.3 lux (color) |
| | 0 lux (B/W) |
| Maximum resolution | 9MP (3008 x 3000) |
| **LENS** | |
| Focal length | 2.1mm, F2.2 |
| Lens type | Fisheye lens |
| HFOV / VFOV | 185° / 185° |
| IR distance | 80ft range |
| **I/O** | |
| Audio in / out and compression | 1 (1.0Vms, 3K ohm) / 1, G.711 |
| Alarm in/out | 1/1 |
| **OPERATIONAL** | |
| Intelligent Video Analytics | IVA: intrusion, line crossing, counting line, loitering, enter, exit, tamper |
| | IVA+: 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 | off, x2, x3, x5, x6, x7.5, x10 |
| Auto gain control | Auto |
| Day / night | Auto, day (color), night (B/W) |
| Smart DNR™ 3D digital noise reduction | 3D-DNR |
| White balance | Yes |
| Mirror and flip | Yes |
| Backlight compensation (BLC) | Yes |
| Privacy zones | 16 programmable privacy masks |
| Alarm notifications | Notifications via e-mail, FTP server, alarm output activation or SD card recording |
| Memory slot | Micro SD / SDHC / SDXC (card not Included) |
| **NETWORK** | |
| LAN | RJ45 (10/100Base-T) |
| Video compression type | H.265, H.264, MJPEG |
| Resolution | H.265: 3008x3000, 2800x2800, 2048x2048, 1600x1600, 640x640, 320x320 H.264: 3008x3000, 2800x2800, 2048x2048, 1600x1600, 640x640, 320x320 MJPEG: 1280x1280, 640x640, 320x320 |
| 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, IPv6 |
| 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 (ID/PW) |
| ONVIF conformance | Yes |
| Web viewer | OS: Windows®, Mac® OS, Linux® |
| | Browser: IE®, Google Chrome®, Mozilla Firefox®, Safari® NOTE: Chrome browser is recommended for IVA configuration |
| Video management software | DW Spectrum® IPVMS |
| **ENVIRONMENTAL** | |
| Operating temperature | -4°F ~ 122°F (-20°C ~ 50°C) |
| Operating humidity | Less than 90% (non-condensing) |
| IP and IK rating | IP66-rated, IK9-impact resistant |
| Other certifications | UL listed, CE, FCC, RoHS |
| **ELECTRICAL** | |
| Power requirement | DC12V, PoE IEEE 802.3af Class3 (Adapter not included) |
| Power consumption | DC12V: max 8.5W PoE: max 10W |
| **MECHANICAL** | |
| Material | Aluminum vandal fisheye housing |
| Dimensions | 4.9" x 1.88" (125 x 48mm) |
| Weight | 1.1 lbs (0.5kg) |
| Warranty | 5 year warranty |

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**DW DIGITAL WATCHDOG**