MEGApix® IVA™
IP cameras with Intelligent Video Analytics

# 5MP color in near-total darkness low-profile vandal dome IP camera with IVA

## DWC-MV85WiATW

IVA Inside

STAR-LIGHT PLUS
Color in Darkness Technology

H.265 H.264/MJPEG

30fps

NDAA/TAA COMPLIANT PRODUCTS

**5MP** Resolution

Intelligent Video Analytics

Star-Light Plus™

Vari-Focal Motorized Zoom P-Iris Lens

True WDR

**5YEAR** Warranty

## Summary

This MEGApix® IVA™ IP camera is your gateway to powerful video analytics features. It is NDAA/TAA compliant and provides 5MP 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 includes a 2.7-13.5mm vari-focal auto-focus lens with motorized zoom, simultaneous H.265/H.264MJPEG codec support and Star-Light Plus™ color in near-total darkness technology for quality video in any lighting condition. The IP66-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

- 5MP 1/2.8" image sensor at real-time 30fps
- Star-Light Plus™ 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® 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™ 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 and relay output
- PoE class 3 and DC12V
- UL listed
- NDAA/TAA compliant
- IP66 environmental-rated dust-tight and water-resistant
- IK 10-rated impact-resistant
- 5 year warranty

ONVIF

## Accessories (Optional)

DWC-V1CNMW
Corner mount

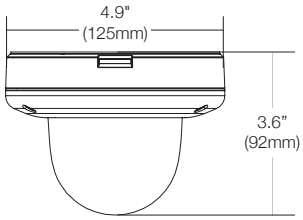
DWC-VFJUNCW
Junction box

DWC-VFCMW
Ceiling mount bracket

DWC-VFWMW
Wall mount bracket

## Dimensions

Unit: Inch (mm)




## Specifications

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|---|---|
| **IMAGE** | |
| Image sensor | 5MP 1/2.8" CMOS |
| Total pixels | 2592(H) X 1944(V) |
| Minimum scene illumination | 0.08 lux (color)<br>0.0 lux (B/W) |
| 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 |
| HFOV / VFOV | 96° - 31° / 70° - 24° |
| IR distance | 100ft range |
| Optical zoom / digital zoom | x5 optical zoom |
| **I/O** | |
| Audio in/out and compression | 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 |
| 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, 120dB |
| Privacy zone | 16 programmable privacy masks |
| Backlight Compensation (BLC) | Yes |
| Mirror and flip | Yes |
| Alarm notifications | Notifications via e-mail notifications, FTP, alarm output and SD card recording |
| Memory slot | Micro SD / SDHC / SDXC (card not included) |
| **NETWORK** | |
| LAN | 10/100 Base-T |
| Video compression type | H.265, H.264, MJPEG |
| Resolution | H.265: 2592x1944, 2304x1296, 2.1MP/1080p, 720p, VGA, D1, CIF<br>H.264: 2592x1944, 2304x1296, 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 | H.264 / H.265: 32Kbps ~ 14Mbps<br>MJPEG: 1Mbps ~ 40Mbps |
| Bitrate control | Multi-streaming CBR/VBR at H.264, 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®<br>Browser: IE®, Google Chrome®, Mozilla Firefox®, Safari®<br>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 | 10-90% RH (non-condensing) |
| IP and IK rating | IP66-rated, IK10 impact resistant |
| Other certifications | UL listed, CE, FCC, RoHS |
| **ELECTRICAL** | |
| Power requirement | DC 12V, PoE IEEE 802.3af Class3. (Adapter not included) |
| Power consumption | DC12V: max7.4W<br>PoE: max8.7W |
| **MECHANICAL** | |
| Material | Aluminum vandal housing, polycarbonate dome |
| Dimensions | 4.9" x 3.6" (125 x 92 mm) |
| Weight | 1.12 lb (0.51kg) |
| Warranty | 5 year warranty |


: 866.446.3595 : sales@digital-watchdog.com : www.digital-watchdog.com



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