



## Summary

This MEGAPIX® 8MP ultra-wide view single-sensor bullet IP camera is NDA/A/TAA compliant and can deliver real-time 30fps crystal-clear video with a 2.3mm ultra-wide view lens for wide-area situational awareness. The camera's ultra-wide view lens provides edge-to-edge image clarity without pixel loss. The camera comes pre-loaded with IVA+ to detect and classify people, vehicles and objects in real-time with support for logical rules.

Additional features include Star-Light Plus™ color in near-total darkness technology for quality video in any lighting condition, true WDR, Smart IR™ LEDs and simultaneous H.265/H.264/MJPEG codec support. The IP67 vandal- and weather-resistant bullet housing can be used for both indoor and outdoor installations. It's unique, focal length is suitable for narrow corridor installations, with clear images as close as 19.5-23.5 inches from the camera.

## Features

- 8MP 1/1.8" 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
- 2.3mm ultra-wide lens
- True wide dynamic range (WDR)
- Triple codecs (H.265, H.264, MJPEG) with simultaneous streaming
- 100' Smart IR™ with intelligent camera sync
- Smart DNR™ 3D digital noise reduction
- True day/night with mechanical IR cut filter
- Auto gain control (AGC)
- 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
- Web server built-in
- PoE class 3 and DC12V
- NDA/A/TAA compliant
- IP67 dust-tight and waterproof to 3 feet
- 5 year warranty



## Accessories (optional)



DWC-BLJUNC-W  
Junction box



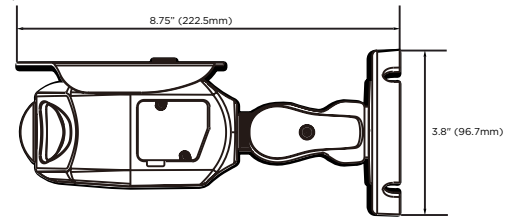
DWC-PMB-WLW  
Pole mount bracket



DWC-V1CNMW  
Pole mount bracket

## Dimensions

Unit: Inch (mm)



## Specifications

| IMAGE                       |                                                                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image sensor                | 8MP 1/1.8" CMOS sensor                                                                                                                                                                                                           |
| Total pixels                | 3952 (H) x 2320 (V)                                                                                                                                                                                                              |
| Minimum scene illumination  | 0.29 lux (color)<br>0 lux (B/W)                                                                                                                                                                                                  |
| Test video output           | Local video output CVBS 1.0V p-p (75Ω), 4:3 aspect ratio                                                                                                                                                                         |
| S/N ratio                   | 50dB                                                                                                                                                                                                                             |
| Maximum resolution          | 3840 (H) x 2160 (V)                                                                                                                                                                                                              |
| LENS                        |                                                                                                                                                                                                                                  |
| Focal length                | 2.3mm, F2.8                                                                                                                                                                                                                      |
| Lens type                   | Ultra-wide angle lens                                                                                                                                                                                                            |
| Field of view (FoV)         | H:175°/V:80°                                                                                                                                                                                                                     |
| 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<br>IVA+ license: object removed, tailgating, direction, stopped, appear, disappear, object left<br>Auto, manual, anti-flicker, slow shutter |
| Shutter mode                | Auto                                                                                                                                                                                                                             |
| 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/night                   | Auto, day (color), night (B/W)                                                                                                                                                                                                   |
| Smart DNR™                  | 3D digital noise reduction - yes                                                                                                                                                                                                 |
| Wide dynamic range (WDR)    | True WDR, 120dB                                                                                                                                                                                                                  |
| White balance               | Auto                                                                                                                                                                                                                             |
| Mirror and flip             | Yes                                                                                                                                                                                                                              |
| Alarm notifications         | Sent 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.264: QFHD, 2.1MP/1080p, 720p, VGA, D1, CIF<br>H.265: 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® 7, Windows® 8, Windows® 10<br>Browser: IE, Chrome, Firefox<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 rating                   | IP67-rated                                                                                                                                                                                                                       |
| Other certifications        | CE, FCC, RoHS                                                                                                                                                                                                                    |
| ELECTRICAL                  |                                                                                                                                                                                                                                  |
| Power requirement           | DC12V, PoE IEEE 802.3af Class 3 (Adapter not included)                                                                                                                                                                           |
| Power consumption           | DC12V: 8.9W, PoE: 12.3W                                                                                                                                                                                                          |
| MECHANICAL                  |                                                                                                                                                                                                                                  |
| Material                    | Aluminum bullet housing                                                                                                                                                                                                          |
| Dimensions                  | 5.03" x 8.75" x 3.8" (127.9 x 222.5 x 96.7mm)                                                                                                                                                                                    |
| Weight                      | (0.97 kg)                                                                                                                                                                                                                        |
| Warranty                    | 5 year warranty                                                                                                                                                                                                                  |