

Vari-Focal Lens  
with Motorized Zoom  
and Auto Focus



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

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

**-40°**  
Cold Start™

5



Star-Light Plus™



Vari-Focal Motorized  
Zoom P-Iris Lens



True WDR



Triple Codecs

5 YEAR

Warranty

## Summary

This MEGAPIX® IP camera provides 5MP resolution at real-time 30fps. It includes a 2.7-13.5mm vari-focal auto-focus lens with motorized zoom, simultaneous H.265/H.264/MJPEG codec support and Star-Light Plus™ color in darkness technology for quality video in any lighting condition, all in an IP66-rated weather resistant bullet housing. 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 darkness technology
- 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
- Cold start -40°F (-40°C)
- 140' Smart IR™ with intelligent camera sync
- 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
- IP66 environmental-rated dust-tight and water-resistant
- 5 year warranty



## Accessories (optional)



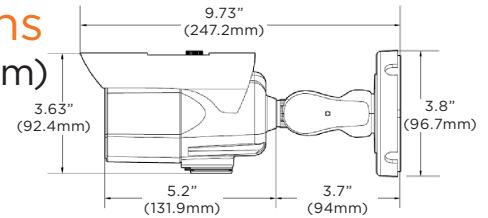
DWC-BLJUNC  
Junction Box for  
Bullet Cameras



DWC-PMB-BU  
Pole Mount Bracket  
for DWC-MB421TIR  
Bullet Cameras

## Dimensions

unit: Inch (mm)



## Specifications

<b>IMAGE</b>	
Image sensor	5MP 1/2.8" CMOS
Total pixels	2592(H) X 1944(V)
Minimum scene illumination	0.08 lux (color) 0.0 lux (B&W)
Video output	Local video output CVBS 1.0V p-p (75Ω), 4:3 aspect ratio
<b>LENS</b>	
Focal length	2.7-13.5mm, F1.4
Lens type	Vari-focal p-iris lens with motorized-zoom and auto-focus
Field of view (FoV)	85° - 31°
IR distance	140ft range
Optical zoom / digital zoom	x5 optical zoom
<b>I/O</b>	
Audio in/out	1/1
Audio compression	G.711
Alarm in/out	1/1
<b>OPERATIONAL</b>	
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
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)
<b>NETWORK</b>	
LAN	10/100Base-T
Video compression type	H.265, H.264, MJPEG
Resolution	H.265: 2592x1944, 2304x1296, 2.1MP/1080p, 720p, VGA, D1, CIF H.264: 2592x1944, 2304x1296, 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	H.264 / H.265 : 32Kbps - 14Mbps MJPEG : 1Mbps - 40Mbps
Bitrate control	H.265 dual-stream or simultaneous H.265 / H.264 / MJPEG
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(SSL), IP filtering, 802.1x, digest authentication(ID/PW)
ONVIF conformance	Yes
Web viewer	OS: Windows®, Mac® OS, Linux® Browser: Internet Explorer®, Google Chrome®, Mozilla Firefox®, Safari®
Video management software	DW Spectrum® IPVMS
<b>ENVIRONMENTAL</b>	
Operating temperature	-40°F - 122°F (-40°C - 50°C)
Operating humidity	10-90% RH (non-condensing)
IP rating	IP66 certified
Other certifications	CE, FCC, RoHS
<b>ELECTRICAL</b>	
Power requirement	DC 12V, PoE (IEEE 802.3af Class 3). (Adapter not included)
Power consumption	DC12V: max 9W PoE: max 10.5W
<b>MECHANICAL</b>	
Material	Aluminum bullet housing
Dimensions	9.73" x 3.8" (247.2 x 96.7mm) *Dimensions based on the position of the sun shield cover
Weight	1.98 lbs (0.9kg)
Warranty	5 year warranty