

Varifocal 3~9 mm (103°~38°)

**FULL HD**  
1920X1080

WDR+3DNR

**Full HD**  
1080



Technical Specifications

<p><b>System</b></p> <ul style="list-style-type: none"> <li>CPU: TI DM368 SoC</li> <li>Flash: 128MB</li> <li>RAM: 256MB</li> <li>Embedded OS: Linux 2.6</li> </ul> <p><b>ONVIF</b></p>	<p><b>Alarm and Event Management</b></p> <ul style="list-style-type: none"> <li>Triple-window video motion detection</li> <li>Tamper detection</li> <li>One DI and one D/O for external sensor and alarm</li> <li>Event notification using HTTP, SMTP or FTP</li> <li>Local or FTP recording</li> </ul> <p><b>Local Storage</b></p> <ul style="list-style-type: none"> <li>Micro SD/SDHC card slot &amp; FTP Recording</li> <li>Stores snapshots and video clips</li> </ul> <p><b>Security</b></p> <ul style="list-style-type: none"> <li>Multi-level user access with password protection</li> <li>IP address filtering</li> <li>HTTPS encrypted data transmission</li> <li>802.1X port-based authentication for network protection</li> </ul> <p><b>Users</b></p> <ul style="list-style-type: none"> <li>Live viewing for up to 10 clients</li> </ul> <p><b>Dimension</b></p> <ul style="list-style-type: none"> <li>Camera: Ø 87 mm x 270 mm</li> <li>Cable length: 600 mm</li> <li>Cable diameter: Ø 8 mm; Max width: Ø 15 mm</li> </ul> <p><b>Weight</b></p> <ul style="list-style-type: none"> <li>Net: 1500 g</li> </ul> <p><b>LED Indicator</b></p> <ul style="list-style-type: none"> <li>System power and status indicator</li> <li>System activity and network link indicator</li> </ul> <p><b>Power</b></p> <ul style="list-style-type: none"> <li>12V DC</li> <li>24V AC</li> <li>Power consumption: Max. 9.6 W</li> <li>802.3af compliant Power-over-Ethernet (Class 3)</li> </ul> <p><b>Housing</b></p> <ul style="list-style-type: none"> <li>Weather-proof IP67-rated Metal housing</li> </ul> <p><b>Approvals</b></p> <ul style="list-style-type: none"> <li>CE, LVD, FCC, VCCI, C-Tick, UL</li> </ul> <p><b>Operating Environments</b></p> <ul style="list-style-type: none"> <li>Temperature: -20 °C ~ 50 °C (-4°F ~ 122 °F)</li> <li>Humidity: 90% RH</li> </ul> <p><b>Viewing System Requirements</b></p> <ul style="list-style-type: none"> <li>OS: Microsoft Windows 7/Vista/XP/2000, Cell phone: 3GPP player</li> <li>Browser: Mozilla Firefox, Internet Explorer 6.x or above</li> </ul>
<p><b>Lens</b></p> <ul style="list-style-type: none"> <li>Motorized vari-focal, f = 3 ~ 9 mm, F1.2 (wide), F2.1 (tele), auto-iris</li> <li>Removable IR-cut filter for day &amp; night function</li> </ul> <p><b>Field of View</b></p> <ul style="list-style-type: none"> <li>37.5° ~ 103.7° (horizontal)</li> <li>21.6° ~ 71.2° (vertical)</li> <li>42.6° ~ 111.2° (diagonal)</li> </ul> <p><b>Shutter Time</b></p> <ul style="list-style-type: none"> <li>1/3 sec. to 1/32,000 sec</li> </ul> <p><b>Image Sensor</b></p> <ul style="list-style-type: none"> <li>1/2.7" CMOS sensor in 1920 x 1080 resolution</li> </ul> <p><b>Minimum Illumination</b></p> <ul style="list-style-type: none"> <li>0.08 Lux @ F1.2 (Color)</li> <li>0.001 Lux @ F1.2 (B/W)</li> </ul> <p><b>IR Illuminators</b></p> <ul style="list-style-type: none"> <li>Built-in IR illuminators, effective up to 20 meters</li> <li>IR LEDx24pcs</li> </ul> <p><b>Video</b></p> <ul style="list-style-type: none"> <li>Compression: H.264, MJPEG</li> <li>Streaming: (Dual)</li> <li>Multiple simultaneous streams</li> <li>H.264 streaming over UDP, TCP, HTTP or HTTPS</li> <li>BNC Composit Video Output (720x576)</li> <li>MJPEG streaming over HTTP or HTTPS</li> <li>Supports activity adaptive streaming for dynamic frame rate control</li> <li>Supports video cropping for bandwidth saving</li> <li>Supports ePTZ for data efficiency</li> <li>Supports 3GPP mobile surveillance</li> <li>Frame rates:             <ul style="list-style-type: none"> <li>H.264:                     <ul style="list-style-type: none"> <li>Up to 30 fps at 1280x720</li> <li>Up to 30 fps at 1920x1080</li> </ul> </li> <li>MJPEG:                     <ul style="list-style-type: none"> <li>Up to 30 fps at 1280x720</li> <li>Up to 30 fps at 1920x1080</li> </ul> </li> </ul> </li> </ul>	<p><b>Image Settings</b></p> <ul style="list-style-type: none"> <li>Adjustable image size, quality and bit rate</li> <li>Time stamp and text caption overlay</li> <li>Flip &amp; mirror</li> <li>Configurable brightness, contrast, saturation, sharpness, white balance and exposure</li> <li>AGC, AWB, AES</li> <li>WDR enhanced, DNR (digital noise reduction)</li> <li>Focus assist (Networking)</li> <li>Automatic, manual or scheduled day/night mode</li> <li>BLC (Backlight Compensation)</li> <li>Supports privacy masks</li> </ul> <p><b>Audio</b></p> <ul style="list-style-type: none"> <li>Compression:             <ul style="list-style-type: none"> <li>CSM-AMR speech encoding, bit rate: 4.75 kbps to 12.2 kbps</li> <li>MPEG-4 AAC audio encoding, bit rate: 16 kbps to 128 kbps</li> <li>G.711 audio encoding, bit rate: 64 kbps, µ-Law or A-Law mode selectable.</li> </ul> </li> <li>Interface:             <ul style="list-style-type: none"> <li>External microphone input</li> <li>Audio output</li> </ul> </li> <li>Supports two-way audio</li> <li>Supports audio mute</li> </ul> <p><b>Networking</b></p> <ul style="list-style-type: none"> <li>10/100 Mbps Ethernet, RJ-45</li> <li>Onvif support Ver: 1.02-3</li> <li>Protocols:             <ul style="list-style-type: none"> <li>IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, and 802.1X</li> </ul> </li> </ul>
<p><b>WDR-OFF</b></p>	<p><b>WDR-ON</b></p>

# Network Bullet Camera IRW-20Z



2-Megapixel • Full HD • WDR Enhanced

## HD Motorized Vari-Focal Lens

Motorized Zoom  
3~9mm  
Auto Focus

# Vari-Focal

HD Vari-Focal (3M)

HD  
3MP

Day  
Night

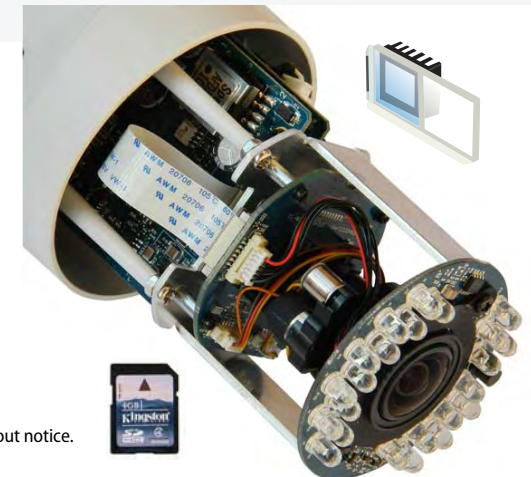
Applicable to  
1/2.7

Vari-Focal	Wide Angle	DC Auto Iris	CS Mount	Metal Mount	ND Filter	Long Cable	Aspherical Lens	Large Aperture Ratio	RoHS Compliant
VARI	WIDE	DC	CS-mt	METAL	ND	230	AT	F1.2	RoHS

## IRW-20Z Network Bullet Camera

2-Megapixel • Full HD • WDR Enhanced

- 2-Megapixel CMOS Sensor
- Up to 30 fps @ 1080p Full HD
- 3 ~ 9 mm Motorized Vari-focal, Auto-iris / Auto Focus Lens
- Removable IR-cut Filter for Day & Night Function
- Built-in IR Illuminators, Effective up to 20 Meters
- Real-time H.264, and MJPEG Compression
- WDR Enhancement for Unparalleled Visibility in Extremely Bright or Dark Environments
- Weather-proof IP67-rated Housing
- Built-in 802.3af Compliant PoE
- Built-in Micro SD/SDHC Card Slot for On-board Storage
- Mounting Bracket with Cable Management for Protected Installation



\* Design and specifications are approximate and subject to change without notice.