



SEEING IS BELIEVING

# MEGAPIX



CAMERA SERIES BROCHURE

## IP Network Cameras



VANDAL



INDOOR



BOX



PTZ

## Full High Definition

delivers crystal clear 1080P HD resolution video images at 30 frames per second



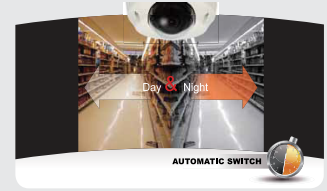
## WDR ( Wide Dynamic Range )

captures full range of details in both bright and dark environments simultaneously



## Day & Night

provides high quality low-light recording by analyzing the ambient light level to automatically switch between day/night mode



## OnVIF

( Open Network Video Interface Forum )

compliant with OnVIF standards for increased flexibility and reduced total cost



## Auto Focus

provides crisp and clear images at all times with its unique remote Auto-Focus Zoom



## PoE

( Power Over Ethernet )

simplifies installation by connecting both power and network through a single cable



## Simultaneous Dual Stream

Cameras can be set to record at high resolution when motion is detected and lower resolution at all other times



## 3D-DNR

produces less noise while also providing more color at night



Model #	Housing	Lens	Vandal	IR	Day/ Night	Optical Zoom	OnVIF	3D-DNR / WDR	SDHC / Audio
MPA20M	Armored	4.3mm Fixed	IP66	x	Electronic	x	•	•	x
MB721M4TIR	Bullet	4.0mm Fixed	IP66	50ft	TDN	x	•	•	SDHC Only
MB721M8TIR	Bullet	8.0mm Fixed	IP66	50ft	TDN	x	•	•	SDHC Only
MF21M4TIR	Vandal Dome	4.0mm Fixed	IP66	30ft	TDN	x	•	•	SDHC Only
MF21M8TIR	Vandal Dome	8.0mm Fixed	IP66	30ft	TDN	x	•	•	SDHC Only
MD412D / MD412DB	SnapIt Indoor	3.5~16mm	x	x	Electronic	X4.5	•	•	•
MD421TIR / MD421TIRB	SnapIt Indoor	3.5~16mm	x	70ft	TDN	X4.5	•	•	•
MV421D / MV421DB	SnapIt Outdoor	3.5~16mm	IP68	x	Electronic	X4.5	•	•	•
MV421TIR / MV421TIRB	SnapIt Outdoor	3.5~16mm	IP68	70ft	TDN	X4.5	•	•	•
MC421D	Color Box	Lens Sold Separately	x	x	Electronic	x	•	•	•
MB421TIR	Bullet	3.5~16mm	IP66	100ft	TDN	X4.5	•	•	•
MB421TIR650	Bullet	6~50mm	IP66	100ft	TDN	X8	•	•	•
MPTZ5X	Pan Tilt Zoom	5~25mm	IP66	x	TDN	X5	•	•	•
MPTZ20X	Pan Tilt Zoom	4.7~94mm	IP66	x	TDN	X20	•	•	•
MPTZ20XFM	Pan Tilt Zoom	4.7~94mm	x	x	TDN	X20	•	•	•
MB950TIR	Bullet	3.4~10mm	IP66	80ft	TDN	X3	•	•	•
MV950TIR	Vandal Dome	3.4~10mm	IP66	50ft	TDN	X3	•	•	•

# MEGAPIX Armored Dome



## MPA20M

- ONVIF Conformant Profile S
- 2.1 Megapixels [1080P, 30fps]
- Triple Codec with Simultaneous Dual-Stream
- 1/2.8" CMOS Sensor
- 4.3mm Fixed Lens, 8X Digital Zoom
- Power over Ethernet [PoE] & DC 12V
- IP66 Certified [Weatherproof]
- Web Server Built-in
- 3D-DNR [3D Digital Noise Reduction]
- Programmable Privacy Zones [16] & Motion Detection

## Specifications

IMAGE	
Image Sensor	1/2.8" CMOS (7% Larger Than 1/3" CMOS)
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.8 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
LENS	
Focal Length	4.3mm Fixed Lens
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super, Fine, Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
Maximum User Access	5 Users
ONVIF Conformance	Yes
Web Viewer	Internet Explorer, Chrome, Firefox, Safari
Supported Software	DW Spectrum IPVMS By OnVIF: Milestone, OnSSI, Exaccq
ENVIRONMENTAL	
IP Rating	IP66 [Protects Against Dust & High Pressure Water]
Other Certifications	CE, FCC, RoHS

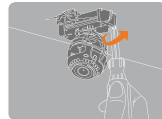
# MEGAPIX Snapit Indoor Dome



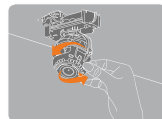
## MD421D / MD421TIR MD421DB / MD421TIRB

- ONVIF Compliant Profile S
- 2.1 Megapixels [1080P, 30fps], 1/2.8" CMOS Sensor
- Triple Codec with Simultaneous Dual-Stream
- 3.5~16mm Auto Focus Lens
- 8X Digital Zoom, 4.5X Optical Zoom
- 70ft Range Smart IR with True Day & Night [IR Models]
- Power over Ethernet [PoE] & DC12V
- Two-Way Audio, Local SDHC Card Remote Backup
- WDR & 3D-DNR Configuration

### Snapit Easy Installation



1 Two Screw Installation



2 Adjustment



3 Snap It

## Specifications

IMAGE	
Image Sensor	1/2.8" CMOS Sensor
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.5 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
LENS	
Focal Length	3.5-16mm, Remote Auto Focus
Digital Zoom / Optical Zoom	8X / 4.5X
IR Distance	70ft Smart IR
AUDIO	
Compression and Sampling Rate	G.711 (8KHz); AAC (48KHz)
Input / Output	1 Line In and 1 Line Out Mono
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super Fine-Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
Maximum User Access	5 Users
ONVIF Conformance	Yes
Web Viewer	Browser: Internet Explorer, Chrome, Firefox, Safari
Supported Software	DW Spectrum IPVMS By OnVIF: Milestone, OnSSI, Exaccq
Memory Slot	Up to 32GB Micro SDHC Card Not Included*

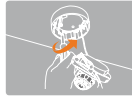
# MEGAPIX Snapit Outdoor Vandal



## MV421D / MV421TIR MV421DB / MV421TIRB

- ONVIF Compliant
- 2.1 Megapixels [1080P, 30fps], 1/2.8" CMOS Sensor
- Triple Codec with Simultaneous Dual-Stream
- 3.5~16mm Auto Focus Lens
- 8X Digital Zoom, 4.5X Optical Zoom
- 70ft Range Smart IR with True Day & Night [IR Models]
- Power over Ethernet [PoE] & DC12V
- Two-Way Audio, Local SDHC Card Remote Backup
- IP68 Certified, Junction Box Built-in
- Web Server Built-in
- WDR & 3D-DNR Configuration

### Snapit Easy Installation



1 Built-in Junction Box Installation



2 Snap It



3 Adjustment



4 Cover

## Specifications

IMAGE	
Image Sensor	1/2.8" CMOS Sensor (7% Larger Than 1/3" CMOS Sensor)
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.5 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
LENS	
Focal Length	3.5-16mm, Remote Auto Focus
Digital Zoom / Optical Zoom	8X / 4.5X
IR Distance	70ft Smart IR
AUDIO	
Compression and Sampling Rate	G.711 (8KHz); AAC (48KHz)
Input / Output	1 Line In and 1 Line Out Mono
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super Fine-Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
Maximum User Access	5 Users
ONVIF Conformance	Yes
Web Viewer	Browser: Internet Explorer, Chrome, Firefox, Safari
Video Management	DW Spectrum IPVMS By OnVIF: Milestone, OnSSI, Exaccq
Memory Slot	Up to 32GB Micro SDHC Card Not Included*
ENVIRONMENTAL	
IP Rating	IP68 (Protects against dust and immersion beyond 3ft.)
Other Certifications	CE, FCC, RoHS

\*Specifications are subject to change without prior notice



**MC412D**

- ONVIF Compliant Profile S
- 2.1 Megapixels (1080P, 30fps)
- Triple Codec with Simultaneous Dual-Stream
- 1/2.8" CMOS Sensor
- Power over Ethernet [PoE] & DC12V
- Two-Way Audio, Local SDHC Card Remote Backup
- Web Server Built-in
- WDR & 3D-DNR Configuration
- Programmable Privacy Zones (16) & Motion Detection
- Compatible with C or CS Mount Lens

**Specifications**

IMAGE	
Image Sensor	1/2.8" Sony CMOS Sensor
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.5 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
AUDIO	
Compression and Sampling Rate	G.711 (8KHz); AAC (48KHz)
Input / Output	1 Line In and 1 Line Out Mono
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super Fine-Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
ONVIF Conformance	Yes
Web Viewer	Browser: Internet Explorer, Chrome, Firefox, Safari
Video Management	DW Spectrum IPVMS By OnVIF: Milestone, OnSSI, Exacc
Memory Slot	Up to 32GB Micro SDHC Card Not Included*
ENVIRONMENTAL	
IP Rating	IP66 [Weatherproof]
Other Certifications	CE, FCC, RoHS



**MB421TIR / MB421TIR650**

- ONVIF Compliant Profile S
- 2.1 Megapixels (1080P, 30fps), 1/2.8" CMOS Sensor
- Triple Codec with Simultaneous Dual-Streams
- 100ft Smart IR with True Day & Night
- 3.5~16mm or 6~50mm Remote Auto Focus Lens
- Power over Ethernet [PoE] & DC12V
- Two-Way Audio, Local SDHC Card Remote Backup
- IP66 Certified, No Fog or Condensation under Any Weather Conditions
- Web Server Built-in
- WDR & 3D-DNR Configuration
- Programmable Privacy Zones (16) & Motion Detection

**Specifications**

IMAGE	
Image Sensor	1/2.8" CMOS Sensor
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.5 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
LENS	
Focal Length	3.5-16mm / 6-50mm, Remote Auto Focus
Digital Zoom / Optical Zoom	8X / 4X
IR Distance	100ft Smart IR
AUDIO	
Compression and Sampling Rate	G.711 (8KHz); AAC (48KHz)
Input / Output	1 Line In and 1 Line Out Mono
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super Fine-Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
Maximum User Access	5 Users
ONVIF Conformance	Yes
Web Viewer	Browser: Internet Explorer, Chrome, Firefox, Safari
Video Management	DW Spectrum IPVMS By OnVIF: Milestone, OnSSI, Exacc
Memory Slot	Up to 32GB Micro SDHC Card Not Included*
ENVIRONMENTAL	
IP Rating	IP66 (Weatherproof)
Other Certifications	CE, FCC, RoHS



**MPTZ20X (purchase with: P39PM, P39WM, P39SPM)  
MPTZ20XFM**

- ONVIF Compliant Profile S
- 2.1 Megapixels (1080P, 30fps), 1/2.8" CMOS Sensor
- Triple Codec, Simultaneous Multi Stream
- 4.7~94mm Varifocal Auto Iris Lens
- 20X Optical Zoom with Auto Focus, 12X Digital Zoom
- Auto Day and Night with IR Cut Filter
- Pan 0~360° Endless, 360° Per Second Pan Speed
- Vector Drive Technology (Pan/Tilt Motion in Shortest Path)
- 128 Preset Positions, 4 Patterns, 8 Swings, 8 Groups
- IP66 Certified [Heater and Fan Built-in]
- Power over Ethernet [PoE Power Injector] & 24VAC

**Specifications**

IMAGE	
Image Sensor	1/2.8" Sony CMOS Sensor
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.5 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
LENS	
Focal Length	4.7-94mm, Auto Focus
Digital Zoom / Optical Zoom	12X Digital, 20X Optical
Maximum Aperture Ratio	F1.6-F3.5
AUDIO	
Compression and Sampling Rate	G.711 (8KHz); AAC (48KHz)
Input / Output	1 Line In and 1 Line Out Mono
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super, Fine, Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3) at 30fps
ONVIF Conformance	Yes
Web Viewer	Browser: Internet Explorer, Chrome, Firefox, Safari
Video Management	DW Spectrum IPVMS By OnVIF: Milestone, OnSSI, Exacc
Memory Slot	Up to 32GB Micro SDHC Card Not Included*
ENVIRONMENTAL	
IP Rating	IP66 (Weatherproof)
Other Certifications	CE, FCC, RoHS

\*Specifications are subject to change without prior notice



## MV950TIR

- 5 Megapixels (2592x1920, 10fps), 1/2.5" 5MP CMOS Sensor
- Triple Codec with Simultaneous Dual-Stream
- 3.4~10mm Varifocal Lens, 3X Optical Zoom
- 50ft IR with Intelligent Camera Sync, TDN
- Power over Ethernet [PoE] & 8~25VDC, and AC24V
- Two-Way Audio, Micro SD/SDHC Class 10 Card for Local Recording
- IP66 Certified (Weatherproof)
- Local & Network Backup to SD Card, FTP Server, or NAS
- DNR (Digital Noise Reduction)

## Specifications

<b>IMAGE</b>	
Image Sensor	1/2.5" 5MP CMOS Sensor
<b>LENS</b>	
Focal Length & Lens Type	3.4~10mm, Varifocal/ DC- Iris
IR Distance	50ft Range IR
<b>AUDIO</b>	
Compression & Sampling Rate	G.711/ G.726/ AAC
Input / Output	Built-in Microphone, 1x Line In and 1x Line Out
<b>OPERATIONAL</b>	
Alarm Actions	File Upload via FTP and E-mail, E-mail Notifications with Snapshot attachment, External Output Activation, File Recording to SD Card, Remote FTP or NAS
<b>NETWORK</b>	
Video Compression Type	DW Optimized Firmware   Full Firmware Option
Resolution	H.264   H.264, MPEG4, MJPEG
Frame Rate	10fps @ 2560x1920   10fps ~ 30fps @ 2592x1920(5MP) / 2048x1536(3MP) / 1920x1080(2MP)
Video Management	Up to 10fps   30fps based on Resolution
Memory Slot	DW Spectrum, I.E. 8 or Higher, Chrome, Firefox, Safari
Memory Slot	Micro SDHC Card (4GB-32GB) Card Not Included*
<b>ENVIRONMENTAL</b>	
IP Rating	IP66 (Protects against dust and high pressure water)



## MB950TIR

- ONVIF Compliant Profile S
- 5 Megapixels (2592x1920, 10fps), 1/2.5" 5MP CMOS Sensor
- Triple Codec with Simultaneous Dual-Stream
- 3.4~10mm Varifocal Lens, 3X Optical Zoom
- 80ft IR with Intelligent Camera Sync, TDN
- Power over Ethernet [PoE] & 8~25VDC, and AC24V
- Two-Way Audio, Micro SD/SDHC Class 10 Card for Local Recording
- IP66 Certified (Weatherproof)
- Local & Network Backup to SD Card, FTP Server, or NAS
- DNR (Digital Noise Reduction)

## Specifications

<b>IMAGE</b>	
Image Sensor	1/2.5" 5MP CMOS Sensor
<b>LENS</b>	
Focal Length & Lens Type	3.4~10mm, Varifocal/ DC- Iris
IR Distance	80ft Range IR
<b>AUDIO</b>	
Compression & Sampling Rate	G.711/ G.726/ AAC
Input / Output	Built-in Microphone, 1x Line In and 1x Line Out
<b>OPERATIONAL</b>	
Alarm Actions	File Upload via FTP and E-mail, E-mail Notifications with Snapshot attachment, External Output Activation, File Recording to SD Card, Remote FTP or NAS
<b>NETWORK</b>	
Video Compression Type	DW Optimized Firmware   Full Firmware Option
Resolution	H.264   H.264, MPEG4, MJPEG
Frame Rate	10fps @ 2560x1920   10fps ~ 30fps @ 2592x1920(5MP) / 2048x1536(3MP) / 1920x1080(2MP)
Video Management	Up to 10fps   30fps based on Resolution
Memory Slot	DW Spectrum, I.E. 8 or Higher, Chrome, Firefox, Safari
Memory Slot	Micro SDHC Card (4GB-32GB) Card Not Included*
<b>ENVIRONMENTAL</b>	
IP Rating	IP66 (Protects against dust and high pressure water)

## IP Technology



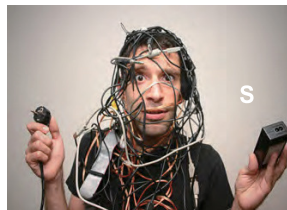
### Remote Auto Focus and Optical Zoom

Using a delicate powerful zoom lens controller from the camera's web-based UI, the camera provides crisp and clear images at all times with its unique remote Auto-Focus zoom.



### PoE [Power Over Ethernet]

This feature enables the camera to receive power via the same network cable it uses to transmit data. This simplifies the installation process, requiring only a single cable to power up, configure, and control your camera.



### Micro SD Card Support



MEGAPIX cameras come with a built-in micro SD card slot for emergency backup. When the camera detects network loss, it will start recording locally.

### TRIPLE CODEC



Real-time H.264, MPEG-4 and MJPEG Compression

### Two-Way Audio



The MEGAPIX Cameras support two-way Audio for communications running between the camera's web-based UI and the camera's location.



## MB721M4TIR / MB721M8TIR

- ONVIF Compliant Profile S
- 2.1 Megapixels (1080P, 30fps), 1/2.8" CMOS Sensor
- Triple Codec with Simultaneous Dual-Streams
- 50ft Smart IR with True Day & Night
- 4.0mm or 8.0mm Fixed Lens
- Power over Ethernet [PoE] & DC12V
- Local SDHC Card Remote Backup
- IP66 Certified, No Fog or Condensation under Any Weather Conditions
- WDR & 3D-DNR Configuration
- Programmable Privacy Zones (16) & Motion Detection

## Specifications

IMAGE	
Image Sensor	1/2.8" CMOS Sensor
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.5 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
LENS	
Focal Length	4.0mm / 8.0mm, Fixed Lens
Digital Zoom	12X
IR Distance	50ft Smart IR
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super Fine~Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
Maximum User Access	5 Users
Web Viewer	Browser: Internet Explorer, Chrome, Firefox, Safari
Video Management	DW Spectrum IPVMS
	By OnVIF: Milestone, OnSSI, Exacc
Memory Slot	Up to 32GB Micro SDHC Card Not Included*
ENVIRONMENTAL	
IP Rating	IP66 (Weatherproof)
Other Certifications	CE, FCC, RoHS



## MF21M4TIR / MF21M8TIR

- ONVIF Compliant Profile S
- 2.1 Megapixels (1080P, 30fps), 1/2.8" CMOS Sensor
- Triple Codec with Simultaneous Dual-Streams
- 30ft Smart IR with True Day & Night
- 4.0mm or 8.0mm Remote Auto Focus Lens
- Power over Ethernet [PoE] & DC12V
- Local SDHC Card Remote Backup
- IP66 Certified
- WDR & 3D-DNR Configuration
- Programmable Privacy Zones (30) & Motion Detection

## Specifications

IMAGE	
Image Sensor	1/2.8" CMOS Sensor
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.5 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
LENS	
Focal Length	4.0mm / 8.0mm, Fixed Lens
Digital Zoom	12X
IR Distance	30ft Smart IR
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super Fine~Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
Maximum User Access	5 Users
Web Viewer	Browser: Internet Explorer, Chrome, Firefox, Safari
Video Management	DW Spectrum IPVMS
	By OnVIF: Milestone, OnSSI, Exacc
Memory Slot	Up to 32GB Micro SDHC Card Not Included*
ENVIRONMENTAL	
IP Rating	IP66 (Weatherproof)
Other Certifications	CE, FCC, RoHS



## MPTZ5X

- ONVIF Compliant Profile S
- 2.1 Megapixels (1080P, 30fps), 1/2.8" CMOS Sensor
- Triple Codec, Simultaneous Multi Stream
- 5~25mm Zoom Lens
- 5X Optical Zoom with Auto Focus, 12X Digital Zoom
- Auto Day and Night with IR Cut Filter
- Pan 0~350° Endless, 120° Per Second Pan Speed
- Vector Drive Technology (Pan/Tilt Motion in Shortest Path)
- 255 Preset Positions, 4 Patterns, 8 Swings, 8 Groups
- IP66 Certified
- Power over Ethernet [PoE Power Injector] & DC12V

## Specifications

IMAGE	
Image Sensor	1/2.8" CMOS Sensor
Effective Pixels	1920 (H) x 1080 (V)
Minimum Scene Illumination	F3.5 (50IRE): 4.6 Lux [C], F3.5 (50IRE): 1.5 Lux [B&W]
LENS	
Focal Length	5~25mm, F3.5 ~ F3.7, Zoom Lens
Digital Zoom / Optical Zoom	12X / 5X
Pan Tilt Zoom	
Range	350° Pan, 90° Tilt
Preset	255
Sequence	4
Swing	8, 8.1°~120°/Sec
Tour	8 (Max 20 Entire Per Tour)
Speed	Preset : 120°/sec, Manual : MAX 120°/sec
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super Fine ~ Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
Maximum User Access	5 Users
Web Viewer	OS: Windows XP / Vista / 7, MAC OS
	Browser: Internet Explorer, Chrome, Firefox, Safari
Video Management Software	DW Spectrum IPVMS
Memory Slot	24 hours recording to Micro SDHC Card (32GB Recommended) Card Not Included*
ENVIRONMENTAL	
IP Rating	IP66 (Protects against dust and high pressure water)
Other Certifications	CE, FCC, RoHS