Surveillance for Maximum Coverage

180°, 360°, and Multi-Sensor
Network Cameras

VIVOTEK

VIVOTEK provides the most extensive line of 180° panoramic solutions in IP surveillance. By covering such a wide view in a single video/image, it provides users with the simplest method for situational surveillance. With practically no loss of angles for blind spots, events can be fully captured. VIVOTEK's 180° panoramic solutions are available in a wide range of megapixel resolutions and housings, suitable for a diverse range of applications including retail, education, transportation, and many more.

CC8160   **CC9381-HV**   **MS9390-HV**   **MS9321-EHV**

High-Quality Surveillance

Along with offering amazing 180° HFOV coverage, VIVOTEK Panoramic Network Cameras also incorporate other value-added features. In order to combat high contrast lighting environments, WDR Pro is included on all models. All models also have built-in panoramic IR illuminators, ensuring 24/7 surveillance coverage. (excluding CC8160)

Panoramic IR Distance

CC9381-HV	15M
MS9390-HV	20M
MS9321-EHV	30M

Fulfill Wide Coverage Scenarios

Just as there are different domes or bullet cameras for different situations, the same goes for 180° panoramic solutions. VIVOTEK provides three different segments of panoramic solutions, each designed for different environments and coverage distances. The compact sized CC line utilizes a single fisheye lens to provide recognition up to 10m, with both indoor and outdoor options available. The outdoor MS9390-HV utilizes 2 images stitched together to provide an 8MP panoramic image, great for recognition up to 20m. Then for the most extensive coverage, VIVOTEK offers the 20MP MS9321-EHV that provides day/night video via 4 image sensors stitched together to provide the furthest coverage.

Various Applications

CC Series
Retail, Education, Residential, Banking, Commercial, Healthcare, Hospitality

Lens x1, 2/5MP   15M

MS9390-HV
Transportation, Education, Parking, Restaurant, Industrial, Healthcare, Hospitality

Lens x2, 8MP   20M

MS9321-EHV
Airports, Transportation, Education, Parking, City/Government, Critical Infrastructure

Lens x4, 20MP   30M

180° Application Suggestion

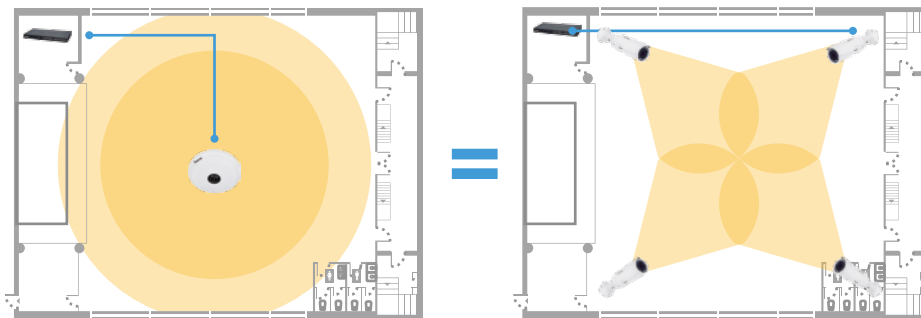| Model	Retail	Education	Residential	Industrial	Commercial	Banking	Hospitality	Transportation	Gaming	Healthcare	City/ Government	Parking	Airport	Crit. Infrastructure
CC8160	V	V	V	-	V	V	V	-	V	V	-	-	-	-
CC8160(HS)	V	-	-	-	-	V	-	-	-	-	-	-	-	-
CC9381-HV	V	V	V	V	V	V	V	V	V	V	-	V	-	-
MS9390-HV	-	V	V	V	V	-	V	V	-	V	V	V	V	V
MS9321-EHV	-	V	-	V	-	-	-	V	-	-	V	V	V	V

VIVOTEK is firmly committed to the development of outstanding fisheye network cameras, providing 180° panoramic viewing (wall mount) or 360° surround viewing (ceiling mount), featuring a wide range of megapixel resolutions, housings, and value-added functions in order to satisfy the needs of a diverse range of applications. With the best dewarping algorithm in IP surveillance VIVOTEK fisheye cameras allow users to digitally pan/tilt/zoom on archived 360° video, providing a simple and unique way to see more from surveillance. This provides a great monitoring advantage for vertical markets such as retail, education, transportation, and many more.

FE8182 **FE9180-H** **FE9181-H** **FE9381-EHV** **FE9182-H** **FE9382-EHV** **FE9191** **FE9391-EV**

Situational Surveillance

Fisheye Network Cameras provide 360° surround views in open areas. A single Fisheye Network Camera can provide coverage of an entire area rather than just one region of that same space. By using a 360° Fisheye Network Camera, the amount of cameras needed for security can be greatly reduced.

Fisheye Network Camera x1

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CCTV x4

Many Display Modes

Ceiling Mount

360°

Dewarp
Dewarp
Dewarp

Display Modes:
1O	4R	O (Original View)
1P	4R PRO	P (Panoramic View)
1R	1O 3R	R (Regional View)
2P	1O 8R	
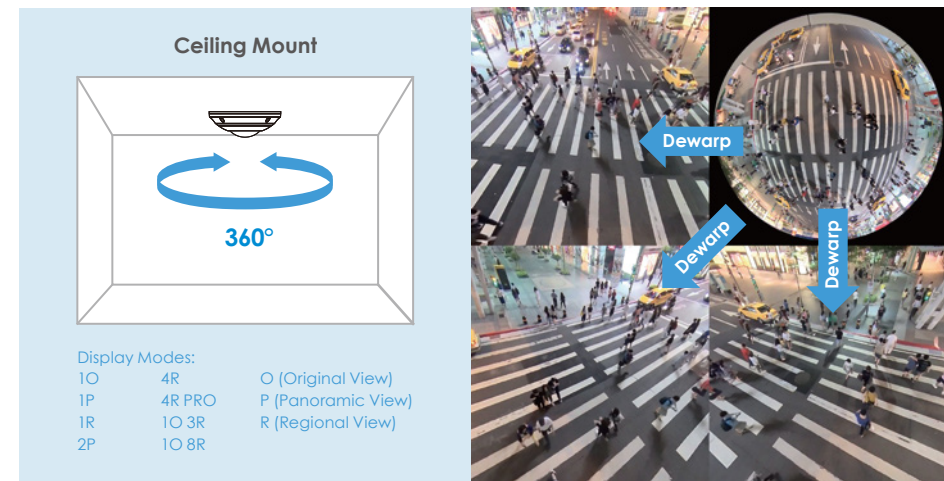
1O 3R

360° High-Uniformity IR

Improve low lux performance by adding built-in IR illuminators and adopting Smart IR II technology - Adaptive IR so that the camera is able to record useful images even in challenging low light conditions.

* Supported model: FE9391-EV

Independent IR control for regional illumination
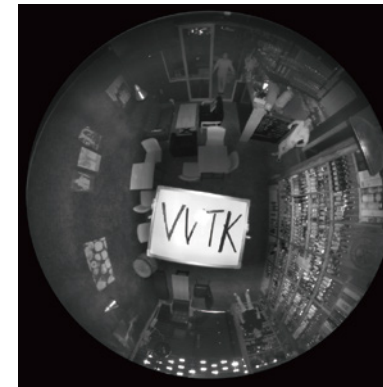
Adaptive IR On
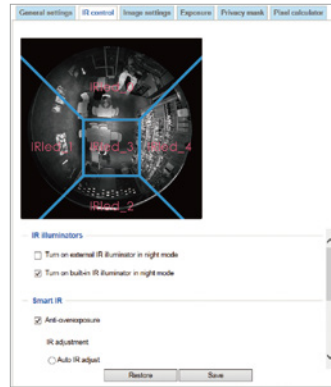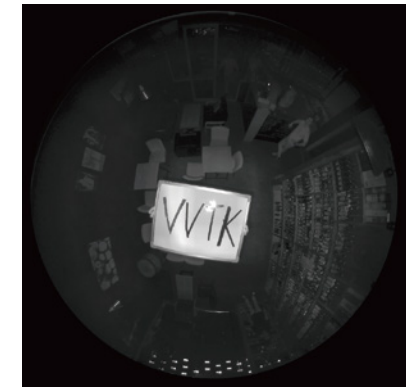

Adaptive IR Off

High-Quality Surveillance

Along with offering amazing 360° coverage, VIVOTEK Fisheye Network Cameras also incorporate other value-added features. All 5MP Fisheye models now include WDR Pro, enabling high quality imagery in high contrast environments. Most models support 30fps, allowing for improved tracking of subjects. And all models have built-in microphones where sound recording or detection is needed.
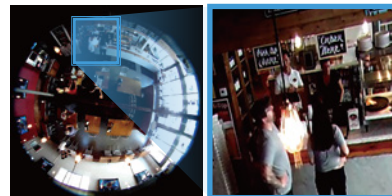
WDR Pro On
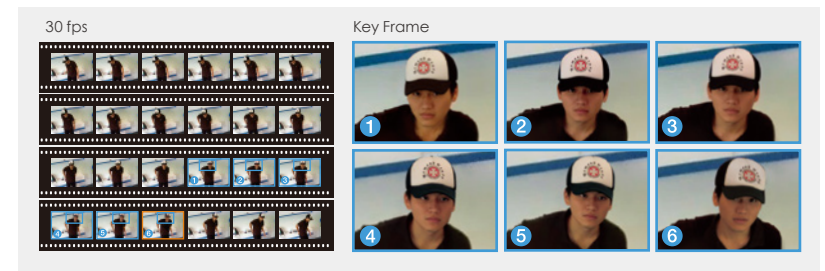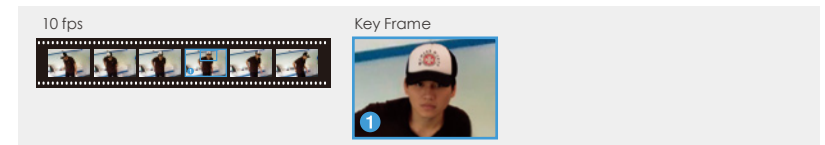
30 fps

Variety of Installation

VIVOTEK 360° Fisheye Network Cameras can be deployed in many applications using the vast array of VIVOTEK accessories available.

Various Applications with Complete Product Line

VIVOTEK offers a complete line of 360° products and are suitable for various applications including, but not limited to Retail, Education, Industrial, Commercial, Banking, Hotels, Transportation, Gaming, Hospitality, and more. From discreet, recessed housings to outdoor weatherproof to transportation certified, VIVOTEK 360° Fisheye Network Cameras have you covered.

Pole Mount	Pendant Mount	Wall Mount	Corner Mount

360° Application Suggestion

Model	Retail	Education	Industrial	Commercial	Banking	Hospitality	Transportation	Gaming	Healthcare	City Surv.	Parking
FE8182	V	V	-	V	V	V	-	V	V	-	-
FE9180-H	V	V	-	V	V	V	-	V	V	-	-
FE9181-H	V	V	-	V	V	V	-	V	V	-	-
FE9182-H	V	V	-	V	V	V	-	V	V	-	-
FE9191	V	V	-	V	V	V	-	-	V	-	-
FE9381-EHV	-	V	V	V	-	V	V	V	-	V	V
FE9382-EHV FE9582-EHNV	-	V	V	V	-	V	V	V	-	V	V
FE9391-EV	-	V	V	V	-	V	V	-	-	V	V

VIVOTEK provides the finest multi-sensor network cameras with adjustable views. Multiple-Adjustable view cameras have 4 imagers along a circular track. All 4 imagers can be panned, tilted, and rotated along the track to enable unlimited coverage patterns for a variety of applications. These include hallways, traffic monitoring, building corners, large lobbies, parking/garages, and more. VIVOTEK utilizes H.265 compression as well as Smart Stream III to reduce bandwidth and storage consumption associated with 4 high resolution image sensors.

MA9321-EHTV

MA9322-EHTV

High Quality Unlimited Coverage

VIVOTEK's MA9321-EHTV and MA9322-EHTV are both equipped with 4x 5MP sensors with motorized zoom lenses, for a total of 20MP. Both models include 120dB WDR Pro to ensure optimum image quality in high contrast lighting environments. The MA9322-EHTV takes it one step further with the inclusion of IR illuminators up to 30m.

Variety of Installation

VIVOTEK Multi-Sensor Cameras can be deployed in many applications using the vast array of VIVOTEK accessories available.

| Pole Mount | Pendant Mount | Wall Mount | Corner Mount | Parapet Mount | Recessed Mount (MA9322-EHTV only) |

Multi-Sensor Application Suggestion

Model	Retail	Education	Industrial	Commercial	Banking	Hospitality	Transportation	Gaming	Healthcare	City Surv.	Parking
MA9321-EHTV	V	V	V	-	-	V	V	V	V	V	V
MA9322-EHTV	V	V	V	-	-	V	V	V	V	V	V

180° Panoramic Network Camera Series

Model	CC8160	CC8160(HS)	CC9381-HV	MS9390-HV	MS9321-EHV
Max. Sensor Resolution	1920x1080 (2MP)	1920x1080 (2MP)	2560x1920 (5MP)	4512x1728 (8MP)	7680x2560 (20MP)
Max. Frame Rate	30 fps @ 1920x1080	30 fps @ 1920x1080	20 fps @ 2560x1920 (WDR On) 30 fps @ 2560x1920 (WDR Off)	30 fps @ 4512x1728	30 fps @ 7680x2560 (WDR On)
Field of View	180° (H) 100° (V)	180° (H) 100° (V)	180° (H) 120° (V)	180° (H) 50° (V)	180° (H) 65° (V)
IR Illuminatiors	-	-	15M	20M	30M
Video Compression	H.264/MJPEG	H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Built-in Mic	v	-	v	v	-
Audio Compression	G.711, G.726	-	G.711, G.726	G.711, G.726	G.711, G.726
3DNR	v	v	v	v	v
WDR Tech.	WDR Enhanced	WDR Enhanced	WDR Pro	WDR Pro	WDR Pro
SNV Tech. (Low Light)	-	-	v	v	v
Smart IR Tech.	-	-	Smart IR	Smart IR	Smart IR II
On-board Storage	-	-	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Dimension	28 x 50 x 88 mm	28 x 50 x 867 mm	160 x 72 x 60 mm	165 x 119 x 100 mm (with sunshield)	369 x 167 x 132 mm (with junction box)
Housing	-	-	IP66, IK10	IP66, IK10	IP66, IK10

360° Fisheye Network Camera Series

Model	FE8182	FE9180-H	FE9181-H FE9381-EHV	FE9182-H FE9382-EHV	FE9582-EHNV	FE9191 FE9391-EV
Max. Sensor Resolution	2560x1920 (5MP)	2560x1920 (5MP)	3096x2094 (5MP)	3096x2094 (5MP)	3096x2094 (5MP)	4000x3000 (12MP)
Max. Frame Rate	15 fps @ 1920x1920	15 fps @ 1920x1920	30 fps @ 1920x1920	30 fps @ 1920x1920	30 fps @ 1920x1920	30 fps @ 2816x2816
Field of View	180° (H) 180° (V)	180° (H) 180° (V)	180° (H) 180° (V)	180° (H) 180° (V)	180° (H) 180° (V)	180° (H) 180° (V)
IR Illuminatiors	-	-	-	20M	10M	FE9391-EV: 20M
Video Compression	H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Built-in Mic	v	v	v	v	v	v
Audio Compression	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726
3DNR	v	v	v	v	v	v
WDR Tech.	WDR Enhanced	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
Smart IR Tech.	-	-	-	Smart IR	Smart IR	FE9391-EV: Smart IR II
Smart 360 VCA	-	-	-	-	-	v
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Dimension	Ø 60 x 102.5 mm	94 x 39 mm (with bracket)	FE9181-H: Ø 139 x 38 mm FE9381-EHV: Ø 145 x 50 mm	FE9182-H: Ø 160 x 39 mm FE9382-EHV: Ø 160 x 51 mm	Ø 160 x 51 mm	FE9191: Ø 139 x 37 mm FE9391-EV: Ø 160 x 62 mm
Housing	-	-	FE9381-EHV: IP66, IK10	FE9382-EHV: IP66, IK10	IP66, IK10	FE9391-EV: IP66, IK10
Approval	-	-	FE9381-EHV: EN50155	FE9382-EHV: EN50155	EN50155, EN45545	FE9391-EV: EN50155
M12 Connectors	-	-	-	-	v	-

Multi-Sensor Adjustable Dome Network Camera Series

Model	MA9321-EHTV	MA9322-EHTV
Max. Sensor Resolution	2688x1920 (5MP) x 4	2688x1920 (5MP) x 4
Max. Frame Rate	30 fps @ (2688x1920) x 4	30 fps @ (2688x1920) x 4
Field of View	40.2° ~ 88.8° (H) 28.6° ~ 59.8° (V)	40.2° ~ 88.8° (H) 28.6° ~ 59.8° (V)
IR Illuminatiors	-	30M
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Built-in Mic	v	v
Audio Compression	G.711, G.726	G.711, G.726
3DNR	v	v
WDR Tech.	WDR Pro	WDR Pro
Smart IR Tech.	-	Smart IR
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Dimension	Ø 210 x 110.4 mm	267 x 114 mm (Main body) 275 x 118 mm (With bracket)
Housing	IP66, IK10	IP66, IK10
Approval	-	-