





12MP \cdot 180° Panoramic View \cdot IP66 \cdot IK10 \cdot -50°C \sim 60°C \cdot 30M IR \cdot Smart Stream II

The VIVOTEK MS8391-EV is designed with multiple sensors providing higher resolution, maximizing the field of view and reducing the total number of cameras required, thereby saving on the installation costs. Featuring 4 x 3MP CMOS sensors, the multiple sensor network camera can monitor full horizontal views and deliver high-quality comprehensive coverage, making it an ideal outdoor surveillance solution with sharper images for more details. Covering a wide angle of 180 degrees, the MS8391-EV provides complete video security with no dead angles.

By having Multiple Sensors with 12-Megapixel resolution, users can ePTZ across the entire panoramic image for detailed views. Employing VIVOTEK's Smart Stream II technology, the MS8391-EV can reduce both bandwidth and storage consumption by up to 50%* while maintaining high standards of image quality.

Additionally, as a professional day/night camera, it adopts a Smart IR technology which prevents overexposure and provides noise reduction to adjust the IR lighting intensity instantaneously based on the changes of light in the ambient environment. Finally, the MS8391-EV is armed with a robust IP66 and IK10-rated housing to enable the multi-sensor camera to withstand rain and dust as well as to protect against vandalism or tampering.

* Depending on scene



Day Viev



Night View (IR Off)



Night View (IR On)

Key Features

- · 12-Megapixel Resolution
- · 180° Panoramic View
- · 7 fps @ 7552x1416
- · Video Alignment to Have a Seamless Picture
- · Smart IR Technology to Avoid Overexposure
- · Built-in IR Illuminators, Effective up to 30 Meters
- · Smart Stream II to Optimize Bandwidth Efficiency
- · Weather-proof IP66-rated and Vandal-proof IK10-rated Housing
- \cdot -50°C ~ 60°C Wide Temperature Range for Extreme Weather Conditions



Campus



Airport



Station



Parking lot

Technical Specifications

Model	MS8391-EV	Intelligent Video	
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System Information		Video Motion Detection	Five-window video motion detection
CPU	Multimedia SoC (System-on-Chip)	Alarm and Event	
Flash	128MB 1GB	Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection
Camera Features		Alarm Events	Event notification using digital output, HTTP, SMTP, FTP, NAS server and SD Card File upload via HTTP, SMTP, FTP, NAS server and SD card
Image Sensor	1/2.8" Progressive CMOS		
Maximum Resolution	7552x1416	General	
Lens Type	Fixed-focal	RJ-45 cable connector for Network/PoE connection Audio input Audio output AC 24V power input Digital input*1 Digital output*1	Audio input Audio output AC 24V power input
Focal Length	f = 6 mm		
Aperture	F1.6		
Field of View	180° (Horizontal) 34° (Vertical)	LED Indicator	System power and status indicator
Shutter Time	1/5 sec. to 1/32000 sec.	Power Input	AC 24V IEEE 802.3at PoE Class 4
WDR Technology	WDR Enhanced	Power Consumption	AC 24V: Max. 43.5W/15.6W (Heater on/off) IEEE 802.3at PoE: Max. 23.5W/15.6W (Heater on/off)
Day/Night	Removable IR-cut filter for day & night function		
Minimum Illumination	0.23 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W)	Weight	2.9 kg
Preset Locations	20 preset locations	Casing	Weather-proof IP66-rated, Vandal-proof IK10-rated
Pan/Tilt/Zoom	ePTZ:	Safety Certifications	CE, LVD, FCC Class A, VCCI, C-Tick, UL
Functionalities	48x digital zoom (4x on IE plug-in, 12x built in)	Operating Temperature	AC 24V: Starting Temperature: -40°C ~ 60°C (-40°F ~ 140°F) Working Temperature: -50°C ~ 60°C (-58°F ~ 140°F) IEEE 802.3at PoE: Starting Temperature: -20°C ~ 60°C (-4°F ~ 140°F) Working Temperature: -20°C ~ 60°C (-4°F ~ 140°F)
IR Illuminators	Built-in IR illuminators, effective up to 30 meters with Smart IR IR LED*4		
On-board Storage	Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording	Humidity	90%
Video		Warranty	36 months
Compression	H.264 & MJPEG	System Requirements	
Maximum Frame Rate	7 fps @ 7552x1416	Operating System	Microsoft Windows 8/7/Vista/XP/2000
Maximum Streams	4 simultaneous streams	Web Browser	Mozilla Firefox 7~43 (Streaming only) Internet Explorer 7/8/9/10/11
S/N Ratio	63 dB		VLC: 1.1.11 or above
Dynamic Range	60 dB	Other Players	Quicktime: 7 or above
Video Streaming	Adjustable resolution, quality and bitrate Configurable video cropping for bandwidth saving Smart Stream II	Included Accessories	
		CD	User's manual, quick installation guide, Shepherd, VAST
Image Settings	Time stamp, text overlay, flip & mirror, scheduled profile settings, configurable brightness/contrast/ saturation/sharpness, white balance, exposure control, gain, backlight compensation, privacy masks	Others	Quick installation guide, warranty card, software CD, desiccant bag, alignment sticker, wall mount kit, screws, sun shield
Audio			
Audio Capability	Two-way audio (full duplex)		
Compression	G.711, G.726		
Interface	External microphone input External line output	Dimensions	
Network			
Users	Live viewing for up to 10 clients	275	mm 126 mm
Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, NTCIP, ARP, SSL, TLS	Ø130 mm	
Interface	10 Base-T/100 BaseTX Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.		

Compatible Accessories

Mounting Kits



Pole Mount Adapter



AM-412 Corner Mount Adapter

Cabinet



AT-CAB-001 Cabinet, IP66, IK10



AT-SUN-001 Sunshield



AT-SWH-000 Power Safety Kit



PoE Kit/Power Adapter

24VAC



AA-341 AC 24V 3.5A Power Adapter

30W PoE

Outdoor



AW-IHT-0100 Industrial Gigabit 30W PoE Injector





IRM-60-48ST Industrial 48VDC/60W Power Supply



AW-IHT-0200 Industrial 1xGE 30W PoE + 1xGE SFP Switch



IRM-60-48ST

Industrial 48VDC/60W Power Supply

indoor



AP-GIC-010A-030 30W PoE Injector



AW-GEV-264A-370 VivoCam L2 Managed 24xGE PoE + 2xGE Combo Switch



AW-FED-0500-120 Unmanaged 4xFE UPoE + 1xFE UTP DIP Switch