



S MS8391-EV series Multiple Sensor Network Camera



12MP · 180° Panoramic View · IP66 · IK10 · -50°C ~ 60°C ·
30M IR · 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 View



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
- -50°C ~ 60°C Wide Temperature Range for Extreme Weather Conditions



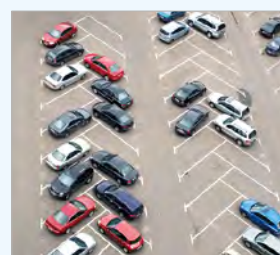
Campus



Station



Airport



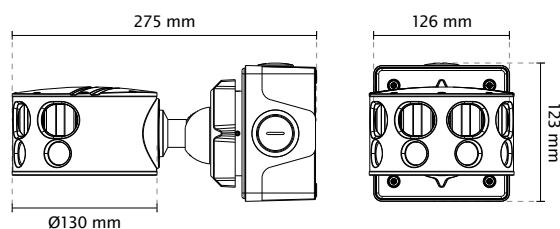
Parking lot

Technical Specifications

Model	MS8391-EV
System Information	
CPU	Multimedia SoC (System-on-Chip)
Flash	128MB
RAM	1GB
Camera Features	
Image Sensor	1/2.8" Progressive CMOS
Maximum Resolution	7552x1416
Lens Type	Fixed-focal
Focal Length	f = 6 mm
Aperture	F1.6
Field of View	180° (Horizontal) 34° (Vertical)
Shutter Time	1/5 sec. to 1/32000 sec.
WDR Technology	WDR Enhanced
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)
Preset Locations	20 preset locations
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)
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
Video	
Compression	H.264 & MJPEG
Maximum Frame Rate	7 fps @ 7552x1416
Maximum Streams	4 simultaneous streams
S/N Ratio	63 dB
Dynamic Range	60 dB
Video Streaming	Adjustable resolution, quality and bitrate Configurable video cropping for bandwidth saving Smart Stream II
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
Audio	
Audio Capability	Two-way audio (full duplex)
Compression	G.711, G.726
Interface	External microphone input External line output
Network	
Users	Live viewing for up to 10 clients
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
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.

Intelligent Video	
Video Motion Detection	Five-window video motion detection
Alarm and Event	
Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection
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
General	
Connectors	RJ-45 cable connector for Network/PoE connection Audio input Audio output AC 24V power input Digital input*1 Digital output*1
LED Indicator	System power and status indicator
Power Input	AC 24V IEEE 802.3at PoE Class 4
Power Consumption	AC 24V: Max. 43.5W/15.6W (Heater on/off) IEEE 802.3at PoE: Max. 23.5W/15.6W (Heater on/off)
Weight	2.9 kg
Casing	Weather-proof IP66-rated, Vandal-proof IK10-rated
Safety Certifications	CE, LVD, FCC Class A, VCCI, C-Tick, UL
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)
Humidity	90%
Warranty	36 months
System Requirements	
Operating System	Microsoft Windows 8/7/Vista/XP/2000
Web Browser	Mozilla Firefox 7~43 (Streaming only) Internet Explorer 7/8/9/10/11
Other Players	VLC: 1.1.11 or above Quicktime: 7 or above
Included Accessories	
CD	User's manual, quick installation guide, Shepherd, VAST
Others	Quick installation guide, warranty card, software CD, desiccant bag, alignment sticker, wall mount kit, screws, sun shield

Dimensions



Compatible Accessories

Mounting Kits



AM-312
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