



# **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
<b>System Information</b>	
CPU	Multimedia SoC (System-on-Chip)
Flash	128MB
RAM	1GB
<b>Camera Features</b>	
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
<b>Video</b>	
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
<b>Audio</b>	
Audio Capability	Two-way audio (full duplex)
Compression	G.711, G.726
Interface	External microphone input External line output
<b>Network</b>	
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

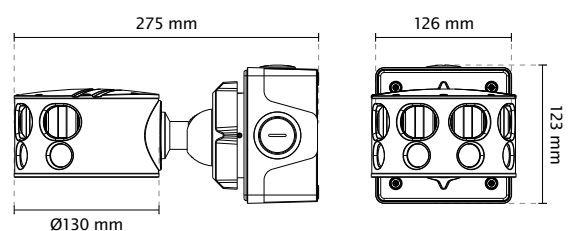
**Other Players** VLC: 1.1.11 or above  
Quicktime: 7 or above

## 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