



MS8391-EV

Multiple Sensor Network Camera



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

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. With the powerful 3D Noise Reduction and Smart Stream technology, the MS8391-EV can also optimize quality for desired regions to maximize efficiency of bandwidth usage.

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.



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 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	Intelligent Video	
System Information		Video Motion Detection	Five-window video motion detection
CPU	Multimedia SoC (System-on-Chip)	Alarm and Event	
Flash	128MB	Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection
RAM	1GB	Alarm Events	Event notification using HTTP, SMTP, FTP and NAS server, SD Card File upload via HTTP, SMTP, FTP, NAS server and SD card
Camera Features		General	
Image Sensor	1/2.8" Progressive CMOS	Connectors	RJ-45 cable connector for Network/PoE connection Audio input Audio output AC 24V power input Digital input*1 Digital output*1
Maximum Resolution	7552x1416	LED Indicator	System power and status indicator
Lens Type	Fixed-focal	Power Input	AC 24V IEEE 802.3at PoE Class 4
Focal Length	f = 6 mm	Power Consumption	AC 24V: Max. 43.5W/15.6W (Heater on/off) IEEE 802.3at PoE: Max. 23.5W/15.6W (Heater on/off)
Aperture	F1.6	Weight	2.8kg
Field of View	180° (Horizontal) 34° (Vertical)	Casing	Weather-proof IP66-rated, Vandal-proof IK10-rated
Shutter Time	1/5 sec. to 1/32000 sec.	Safety Certifications	CE, LVD, FCC Class A, VCCI, C-Tick, UL
WDR Technology	WDR Enhanced	Operating Temperature	AC 24V: Starting Temperature: -40°C ~ 60°C (-40°F ~ 140°F) Working Temperature: -50°C ~ 60°C (-58°F ~ 140°F) PoE: Starting Temperature: -20°C ~ 60°C (-4°F ~ 140°F) Working Temperature: -20°C ~ 60°C (-4°F ~ 140°F)
Day/Night	Removable IR-cut filter for day & night function	Humidity	90%
Minimum Illumination	0.23 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W)	Warranty	36 months
Preset Locations	20 preset locations	System Requirements	
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)	Operating System	Microsoft Windows 8/7/Vista/XP/2000
IR Illuminators	Built-in IR illuminators, effective up to 30 meters with Smart IR IR LED*4	Web Browser	Mozilla Firefox 7~43 (Streaming only) Internet Explorer 7/8/9/10/11
On-board Storage	Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording	Other Players	VLC: 1.1.11 or above Quicktime: 7 or above
Video		Included Accessories	
Compression	H.264 & MJPEG	CD	User's manual, quick installation guide, Installation Wizard 2, VAST
Maximum Frame Rate	7 fps @ 7552x1416	Others	Quick installation guide, warranty card, software CD, desiccant bag, alignment sticker, wall mount kit, screws
Maximum Streams	4 simultaneous streams	Dimensions	
S/N Ratio	63 dB		
Dynamic Range	60 dB		
Video Streaming	Adjustable resolution, quality and bitrate Configurable video cropping for bandwidth saving		
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, Smart Stream		
Audio			
Audio Capability	Audio input/output (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.		

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