



FD9391-EHTV Fixed Dome Network Camera



8MP 30fps • 2MP 120fps • SNV • WDR Pro •
Smart Stream III • 50M IR • IP66 • IK10 • NEMA 4X

The FD9391-EHTV is the new flagship outdoor dome network camera from VIVOTEK, equipped with a 4K ultra HD sensor capable of 3840 x 2160 resolution at 30 fps. With the latest in VIVOTEK WDR Pro technology, the FD9391-EHTV is capable of capturing the highest quality images in high contrast environments.

The FD9391-EHTV also supports standard 1920x1080 HD resolution at 120 frames per second, capable of catching very fast moving objects. Additionally, the FD9391-EHTV employs VIVOTEK's Smart

Stream III technology and H.265 compression codec, reducing bandwidth more than 90%* while still maintaining excellent image quality. Protecting all these features is the FD9391-EHTV's IP66, IK10 and NEMA 4X certified housing, capable of operating in temperatures from -50°C to 60°C.

* Depending on the scene

Key Features

- H.265 Compression Technology
- 30 fps @ 3840x2160 (WDR Pro on)
- 120 fps @ 1920x1080 (WDR Pro off)
- Smart Stream III to Optimize Bandwidth Efficiency
- Built-in IR Illuminators, Effective up to 50 Meters
- Smart IR II Technology to Avoid Overexposure
- WDR Pro for Unparalleled Visibility in Extremely Bright and Dark Environments
- SNV (Supreme Night Visibility) for Low Light Conditions
- Weather-proof IP66-rated, Vandal-proof IK10 and NEMA 4X-rated Housing
- -50°C ~ 60°C Wide Temperature Range for Extreme Weather Conditions (IR Off)



2MP Resolution

4K Resolution

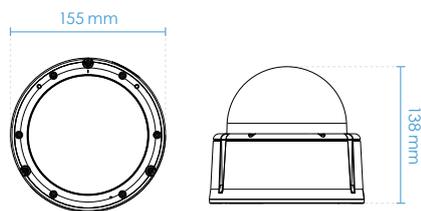
Technical Specifications

Model	FD9391-EHTV		
System Information			
CPU	Multimedia SoC (System-on-Chip)		
Flash	128MB		
RAM	1GB		
Camera Features			
Image Sensor	1/2" Progressive CMOS		
Max. Resolution	3840x2160		
Lens Type	Vari-focal, Remote Focus		
Focal Length	f = 3.9 ~ 10 mm		
Aperture	F1.5 ~ F2.7		
Iris type	P-iris		
Field of View	45° ~ 119° (Horizontal) 25° ~ 63° (Vertical) 52° ~ 142° (Diagonal)		
Shutter Time	1/5 sec. to 1/32,000 sec.		
WDR Technology	WDR Pro		
Minimum Illumination	0.02 Lux @ F1.5 (Color) 0.01 Lux @ F1.5 (B/W) 0 Lux with IR illumination on		
Day/Night	Removable IR-cut filter for day & night function		
Pan Range	353°		
Tilt Range	80°		
Rotation Range	180°		
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)		
IR Illuminators	Built-in IR Illuminators up to 50 meters with Smart IR II		
On-board Storage	Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording		
Video			
Compression	H265, H264, MJPEG		
Maximum Frame Rate	30 fps @ 3840x2160 (WDR Pro on) 120 fps @ 1920x1080 (WDR Pro off)		
Maximum Streams	3 simultaneous streams		
S/N Ratio	60.5 dB		
Dynamic Range	120 dB		
Video Streaming	Adjustable resolution, quality and bit rate control, Smart Stream III		
Image Settings	Adjustable image size, quality and bit rate; Time stamp, text overlay, flip & mirror; Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks (Up to 24); Scheduled profile settings, defog, 3DNR, video rotation, AE speed, DIS, HLC		
Audio			
Audio Capability	Two-way Audio		
Compression	G.711, G.726		
Interface	Build-in Mic 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, CIFS/SMB, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLS/SSL		
Interface	10 Base-T/100 Base-TX Ethernet /1000 Base-T (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.		
ONVIF	Supported, specification available at www.onvif.org		
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, advanced motion detection, MircoSD card life expectancy		
Alarm Events	Event notification using digital output, HTTP, SMTP, FTP, NAS server and MicroSD card File upload via HTTP, SMTP, FTP, NAS server and MicroSD card		
General			
Connectors	RJ-45 cable connector for Network 10/100/1000 Mbps PoE connection*1 Audio input*1 Audio output*1 DC 12V power input*1 AC 24V power input *1 Digital input*1 Digital output*1		
LED Indicator	System power and status indicator		
Power Input	IEEE 802.3at Class4 PoE AC 24V/DC 12V Power redundancy		
Power Consumption	Max: 25 W		
Dimensions	Ø 155 x 138 mm		
Weight	1,306 g		
Casing	IP66, IK10		
Safety Certifications	CE, FCC Class A, VCCI, C-tick, NEMA 4X, UL		
Operating Temperature	Starting Temperature: -40°C ~ 60°C (-40°F ~ 140°F) Working Temperature (IR off): -50°C ~ 60°C (-58°F ~ 140°F) Working Temperature (IR on): -50°C ~ 50°C (-58°F ~ 122°F)		
Humidity	90%		

Technical Specifications

Warranty	36 months
System Requirements	
Operating System	Microsoft Windows 8/7
Web Browser	Mozilla Firefox 7~43 (streaming only) Internet Explorer 10/11
Other Players	VLC: 1.1.11 or above Quicktime: 7 or above
Included Accessories	
Others	Waterproof connectors, conduit ring, quick installation guide, warranty card, alignment sticker, desiccant bags

Dimensions



Compatible Accessories

Mounting Kits

 AM-21A L-shape Bracket	 AM-51C Adapting Plate	 AM-525 Mounting Adapter	 AM-713(v01) Outdoor Conduit Box
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