FD836BA-HTV/EHTV
FD836BA-HVF2/EHVF2

Fixed Dome Network Camera

2MP · WDR · SNV · 30M IR · Smart IR · IP66 · IK10 · Extreme Weather · Video Rotation · Defog

VIVOTEK's FD836BA-HV is a series of outdoor-ready Full HD fixed dome network cameras offering superb video quality with up to 30 fps at 1920x1080. Armed with VIVOTEK's WDR and SNV technology, the series is capable of capturing high quality and high visibility video whether in high contrast or low light environments.

The FD836BA-HV series provides flexible options for both fixed focus for simple operation, and remote focus with built-in stepping motors and P-iris to provide precise adjustments remotely. In order to adapt to constantly changing outdoor lighting conditions, the FD836BA-HV series features a removable IR-cut filter as well as IR illuminators effective up to 30M for superior image quality around the clock. As a professional day/night camera, the FD836BA-HV series also 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.

For protection against harsh outdoor environments, the FD836BA-HV series is encased in a weather-proof IP66-rated housing, making it impervious to rain and dust. The robustness of the FD836BA-HV series is further strengthened by the adoption of rugged IK10 design housing.

Additionally, a wide operating temperature range further enhances the FD836BA-HV's performance and reliability in extremely cold or hot temperatures, even when using PoE. When choosing VIVOTEK FD836BA-HV series, users have four options: the FD836BA-HTV, FD836BA-EHTV, FD836BA-HVF2, and FD836BA-EHVF2. Different options can be chosen based on the requirements of your application, such as focusing method or operating environment temperature.

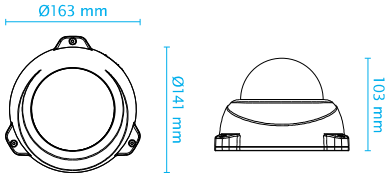
Key Features

- 2-Megapixel CMOS Sensor
- 30 fps @ 1920x1080
- 2.8 ~ 12 mm, Remote Focus, P-iris Lens (FD836BA-HTV/EHTV)
- Removable IR-cut Filter for Day & Night Function
- Built-in IR Illuminators, Effective up to 30 Meters
- Smart IR Technology to Avoid Overexposure
- WDR for Unparalleled Visibility in Extremely Bright and Dark Environments
- SNV (Supreme Night Visibility) for Low Light Conditions
- 3D Noise Reduction
- Two-way Audio
- Video Rotation for Corridor View
- Weather-proof IP66-rated and Vandal-proof IK10-rated Housing
- Support Installation with AM-713 Outdoor Conduit Box
- Extreme Weather Support with PoE (FD836BA-EHTV/EHVF2)
- VIVOTEK VCA (Video Content Analysis) Support

Technical Specifications

Model	FD836BA-HTV: Vari-focal, P-iris, Remote Focus FD836BA-EHTV: Vari-focal, P-iris, Remote Focus, Extreme Weather FD836BA-HVF2: Fixed-focal FD836BA-EHVF2: Fixed-focal, Extreme Weather
System Information	
CPU	Multimedia SoC (System-on-Chip)
Flash	1Gb
RAM	2Gb
Camera Features	
Image Sensor	1/2.7" Progressive CMOS
Maximum Resolution	1920x1080 (2MP)
Lens Type	FD836BA-HTV/EHTV: Vari-focal FD836BA-HVF2/EHVF2: Fixed-focal
Focal Length	FD836BA-HTV/EHTV: f = 2.8 ~ 12 mm FD836BA-HVF2/EHVF2: f = 2.8 mm
Aperture	FD836BA-HTV/EHTV: F1.8 ~ F2.85 FD836BA-HVF2/EHVF2: F1.8
Auto-iris	P-iris (FD836BA-HTV/EHTV)
Field of View	FD836BA-HTV/EHTV: 34˚ ~ 107˚ (Horizontal) 19˚ ~ 56˚ (Vertical) 39˚ ~ 133˚ (Diagonal) FD836BA-HVF2/EHVF2: 122˚ (Horizontal) 66˚ (Vertical) 142˚ (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR
Day/Night	Removable IR-cut filter for day & night function
Minimum Illumination	FD836BA-HTV/EHTV: 0.1 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W) FD836BA-HVF2/EHVF2: 0.15 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)
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*8
On-board Storage	Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording
Video	
Compression	H.264 & MJPEG
Maximum Frame Rate	30 fps @ 1920x1080 In both compression modes
Maximum Streams	4 simultaneous streams
S/N Ratio	66dB
Dynamic Range	100dB
Video Streaming	Adjustable resolution, quality and bitrate Smart Stream
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; Scheduled profile settings, 3D noise reduction, video rotation, defog
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, UDP, ICMP, 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.
ONVIF	Supported, specification available at www.onvif.org
Intelligent Video	
Video Motion Detection	Five-window video motion detection
VCA	Line crossing detection, field detection, loitering detection *Available per project request.
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	
Smart Focus System	Remote Focus (FD836BA-HTV/EHTV)
Connectors	RJ-45 cable connector for Network/PoE connection Audio input Audio output DC 12V power input Digital input*1 Digital output*1
LED Indicator	System power and status indicator
Power Input	DC 12V FD836BA-HTV/HVF2: IEEE 802.3af/at PoE Class 0 FD836BA-EHTV/EHVF2: IEEE 802.3at PoE Class 4
Power Consumption	FD836BA-HTV: Max. 13 W FD836BA-EHTV/EHVF2: Max. 25 W (Heater on) FD836BA-HVF2: Max. 9 W
Dimensions	Ø 155 x 103 mm
Weight	920 g
Casing	Weather-proof IP66-rated housing Vandal-proof IK10-rated metal housing
Safety Certifications	FD836BA-HTV/EHTV: CE, LVD, FCC Class A, VCCI, C-Tick, UL FD836BA-HVF2/EVF2: CE, LVD, FCC Class A, VCCI, C-Tick
Operating Temperature	FD836BA-HTV/HVF2: Starting Temperature: -10˚C ~ 50˚C (14˚F ~ 122˚F) Working Temperature: -20˚C ~ 50˚C (-4˚F ~ 122˚F) FD836BA-EHTV/EHVF2: Starting Temperature: -40˚C ~ 50˚C (-40˚F ~ 122˚F) Working Temperature: -50˚C ~ 50˚C (-58˚F ~ 122˚F)
Warranty	FD836BA-HTV/EHTV: 36 months FD836BA-HVF2/EHVF2: 24 months
System Requirements	
Operating System	Microsoft Windows 7/8/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, Installation Wizard 2, VAST 32-channel recording software
Others	Quick installation guide, warranty card, alignment sticker/desiccant bag, screw pack

Dimensions



Compatible Accessories

Mounting Kits				PoE Kits
AM-21A L Shape Bracket	AM-51C (v01) Adapter Ring	AM-525 (v01) Mounting Adapter	AM-713 Conduit Box	AP-FXC-0250 Outdoor 2-Port FE PoE Extender

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