



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 builtin 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.

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For protection against harsh outdoor environments, the FD836BA-HV series is encased in a weather-proof IP66rated 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
- \cdot SNV (Supreme Night Visibility) for Low Light Conditions

- · 3D Noise Reduction
- \cdot Two-way Audio
- $\cdot\,$ Video Rotation for Corridor View

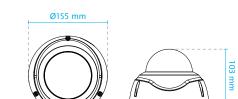
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- Weather-proof IP66-rated and Vandal-proof IK10-rated Housing
- Support Installation with AM-713 Outdoor Conduit Box
- Extreme Weather Support with PoE (FD836BA-EHTV/EHVF2)
- · VIVOTEK VCA (Video Content Analysis) Support

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	1920×1080 (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) FD836BA-HTV/EHTV:
Field of View	A34 ~ 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	ePTZ:
Functionalities IR Illuminators	48x digital zoom (4x on IE plug-in, 12x built in) 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
Maximum Frame Rale	In both compression modes
Maximum Streams	4 simultaneous streams
S/N Ratio	66dB
Dynamic Range	100dB
Dynamic Range Video Streaming	Adjustable resolution, quality and bitrate
Video Streaming Image Settings	Adjustable resolution, quality and bitrate Smart Stream 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,
Video Streaming Image Settings Audio Audio Capability	Adjustable resolution, quality and bitrate Smart Stream 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 Two-way Audio (full duplex)
Video Streaming Image Settings Audio Audio Capability	Adjustable resolution, quality and bitrate Smart Stream 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 Two-way Audio (full duplex) G.711, G.726
Video Streaming Image Settings Audio Audio Capability Compression Interface	Adjustable resolution, quality and bitrate Smart Stream 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 Two-way Audio (full duplex)
Video Streaming Image Settings Audio Audio Capability Compression Interface Network	Adjustable resolution, quality and bitrate Smart Stream 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 Two-way Audio (full duplex) G.711, G.726 External microphone input External line output
Video Streaming Image Settings Audio Audio Capability Compression Interface	Adjustable resolution, quality and bitrate Smart Stream 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 Two-way Audio (full duplex) G.711, G.726 External microphone input
Video Streaming Image Settings Audio Audio Capability Compression Interface Network Users	Adjustable resolution, quality and bitrate Smart Stream 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 Two-way Audio (full duplex) G.711, G.726 External microphone input External line output Live viewing for up to 10 clients 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,

Intelligent Midday	
Intelligent Video Video Motion Detection	Five-window video motion detection
video Motion Detection	Line crossing detection, field detection, loitering
VCA	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)
Humidity	90%
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
Other Players Included Accessories	Quicktime: 7 or above
Included Accessories	Quicktime: 7 or above User's manual, quick installation guide, Installation Wizard 2, VAST 32-channel recording



Compatible Accessories





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