



FD836BA-HTV/EHTV



FD836BA-HVF2/EHVF2

Fixed Dome Network Camera

2MP · WDR Pro · 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 Pro 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.

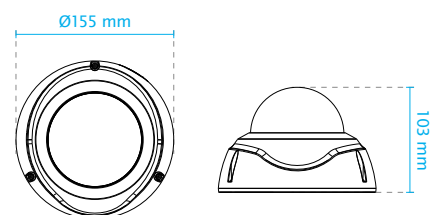
Key Features

- 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 Pro 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)

Technical Specifications

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|-------------------------------|---|
| 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 Pro |
| 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, CIFS/SMB |
| 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. |

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| 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 |
| 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 | |
| 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 |
| 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 | |
| CD | User's manual, quick installation guide, Shepherd, 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 |