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

Model
FD836BA-HTV: Vari-focal, P-iris, Remote Focus
FD836BA-HVF2: Fixed-focal
FD836BA-EHTV: Vari-focal, P-iris, Remote Focus, Extreme Weather
FD836BA-EHV2: Fixed-focal, Extreme Weather

System Information
CPU Multimedia SoC (System-on-Chip)
RAM 2Gb (256MB)

Camera Features
Image Sensor 1/2.7" Progressive CMOS
Maximum Resolution 1920x1080 (2MP)
Lens Type FD836BA-HTV/EHTV: Vari-focal
FD836BA-HVF2/EHV2: Fixed-focal
Focal Length FD836BA-HTV/EHTV: f = 2.8 ~ 12 mm
FD836BA-HVF2/EHV2: f = 2.8 mm
Aperture FD836BA-HTV/EHTV: F1.8 ~ F2.85
FD836BA-HVF2/EHV2: 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/EHV2: 122° (Horizontal)
66° (Vertical)
142° (Diagonal)

Shutter Time 1/5 sec. to 1/32,000 sec.
WDR Technology WDR Pro

Minimum Illumination
FD836BA-HTV/EHTV: 0.1 Lux @ F1.8 (Color)
0.01 Lux @ F1.8 (B/W)
FD836BA-HVF2/EHV2: 0.15 Lux @ F1.8 (Color)
0.01 Lux @ F1.8 (B/W)

Pan/Tilt/Zoom
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 bitrate; 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 C.711, C.726
Interface External microphone input
External line output

Network
Users Live viewing for up to 10 clients
Interface 10 Base-T/100 BaseTX Ethernet (RJ-45)

ONVIF Supported, specification available at www.onvif.org

Intelligent Video
Video Motion Detection Five-window video motion detection

Alarms 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 Audio input
Audio output
DC 12V power input
Digital input1
Digital output1

LED Indicator
System power and status indicator

Power Input
DC 12V

Power Consumption
FD836BA-HTV/HVF2: Max. 13 W
FD836BA-EHTV/EHV2: Max. 25 W (Heater on) 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/EHV2:
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/EHV2:
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/EHV2: 24 months

System Requirements
Operating System Microsoft Windows 7/8
Web Browser Internet Explorer 10/11
Chrome version 58.0.3029 or above
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
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## Compatible Accessories

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<th>Mounting Kits</th>
<th>PoE Kits</th>
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<td>AP-FXC-0250</td>
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<td>L Shape Bracket</td>
<td>Outdoor 2-Port FE PoE Extender</td>
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<tr>
<td>AM-51C (v01)</td>
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<td>Adapter Ring</td>
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<td>AM-525 (v01)</td>
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<td>Mounting Adapter</td>
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