



## FD816BA-HT



## FD816BA-HF2

Fixed Dome Network Camera



2MP · WDR · 30M IR · PIR · Video Rotation ·  
Smart Stream · Smart IR · Video Rotation · Defog

VIVOTEK's FD816BA-H is a series of indoor dome network cameras equipped with a Full HD WDR sensor enabling viewing resolution of 1920x1080 at 30 fps. Representing a range of true all-in-one indoor cameras, this series is capable of capturing high quality video at high resolutions of up to 2 Megapixel.

The FD816BA-H 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. As a professional day/night camera, the FD816BA-H series features a removable IR-cut filter as well as IR illuminators effective up to 30M for superior image quality around the clock. The camera 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. Featuring the Wide Dynamic Range Technology, the FD816BA-H series provides improved visibility in the extremely bright and dark environment.

For indoor applications, VIVOTEK's FD816BA-H series is armed with a built-in PIR sensor to help detect unexpected events and provide security in real time. When selecting the VIVOTEK FD816BA-H series, users have two options: the FD816BA-HF2 and the FD816BA-HT. Choosing the appropriate model will ensure any focusing requirements can be met.

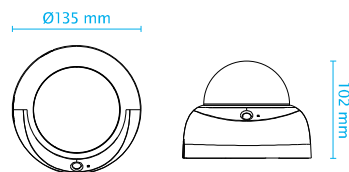
### Key Features

- 2-Megapixel CMOS Sensor
- 30 fps @ 1920x1080
- 2.8 ~ 12 mm, Vari-focal, Remote Focus, P-iris Lens (FD816BA-HT)
- 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
- 3D Noise Reduction
- Real-time H.264, and MJPEG Compression
- Two-way Audio
- Video Rotation for Corridor View
- Support Installation with AM-712 Outdoor Conduit Box
- PIR
- VIVOTEK VCA (Video Content Analysis) Support






# Technical Specifications

Model	FD816BA-HT: Vari-focal, P-iris, Remote Focus FD816BA-HF2: Fixed-focal
<b>System Information</b>	
CPU	Multimedia SoC (System-on-Chip)
Flash	1Gb
RAM	2Gb
<b>Camera Features</b>	
Image Sensor	1/2.7" Progressive CMOS
Maximum Resolution	1920x1080 (2MP)
Lens Type	FD816BA-HT: Vari-focal FD816BA-HF2: Fixed-focal
Focal Length	FD816BA-HT: f = 2,8 ~ 12 mm FD816BA-HF2: f = 2,8 mm
Aperture	FD816BA-HT: F1,8 ~ F2,85 FD816BA-HF2: F1,8
Auto-iris	P-iris (FD816BA-HT)
Field of View	FD816BA-HT: 34° ~ 112° (Horizontal) 19° ~ 59° (Vertical) 39° ~ 133° (Diagonal) FD816BA-HF2: 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	FD816BA-HT: 0,12 Lux @ F1,8 (Color) 0,01 Lux @ F1,8 (B/W) FD816BA-HF2: 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: Micro SD/SDHC/SDXC card slot Seamless Recording
<b>Video</b>	
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
<b>Audio</b>	
Audio Capability	Two-way Audio (full duplex)
Compression	G,711, G,726
Interface	Built-in microphone External line input External line output
<b>Network</b>	
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
<b>Intelligent Video</b>	
Video Motion Detection	Five-window video motion detection
VCA	Line crossing detection, field detection, loitering detection *Available per project request.
<b>Alarm and Event</b>	
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
<b>General</b>	
Smart Focus System	Remote Focus (FD816BA-HT)
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 IEEE 802.3af/at PoE Class 0
Power Consumption	FD816BA-HT: Max. 13 W FD816BA-HF2: Max. 9 W
Dimensions	Ø 138 x 103 mm
Weight	541 g
Safety Certifications	FD816BA-HT: CE, LVD, FCC Class B, VCCI, C-Tick, UL FD816BA-HF2: CE, LVD, FCC Class B, VCCI, C-Tick
Operating Temperature	Starting Temperature: 0°C ~ 50°C (32°F ~ 122°F) Working Temperature: -10°C ~ 50°C (14°F ~ 122°F)
Warranty	FD816BA-HT: 36 months FD816BA-HF2: 24 months
<b>System Requirements</b>	
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
<b>Included Accessories</b>	
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
<b>Dimensions</b>	



## Compatible Accessories

Mounting Kits				PoE Kits
				
AM-215 (v02) L Shape Bracket	AM-514 (v01) Adapter Ring	AM-527 (v01) Mounting Adapter	AM-712 Conduit Box	AP-FXC-0201 PoE Extender with Conduit Box