

**FD816B-HT****FD816B-HF2**

Fixed Dome Network Camera

**2MP · SNV · WDR · 30M IR · P-iris · Remote Focus · 3DNR ·  
Smart Stream · Smart IR · Video Rotation · PIR · Defog**

VIVOTEK's FD816B-H is a series of indoor dome network cameras equipped with a Full HD sensor enabling viewing resolution of 1920x1080 at a smooth 30 fps. Representing a range of true all-in-one indoor cameras, this series is capable of capturing high quality and high resolution video at up to 2 Megapixels whether in high contrast or in low light environments with WDR and SNV technology.

Further increasing its flexibility, VIVOTEK's FD816B-H series provides options for both fixed focus for simple operation without extra electrical power, and remote focus with built-in stepping motors and P-iris to provide precise adjustment remotely.

To meet the demands of indoor applications, VIVOTEK's FD816B-H series is armed with a built-in PIR sensor to help detect unexpected events and provide security in real time.

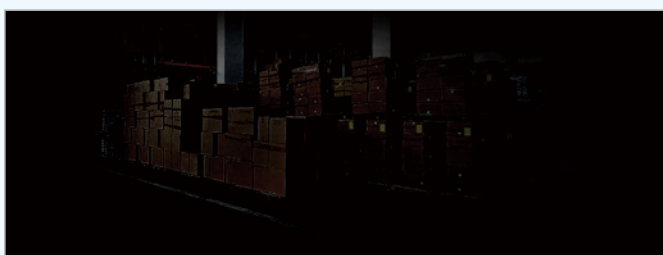
When selecting the VIVOTEK FD816B-H series, customers will be offered two options: the FD816B-HF2, and the FD816B-HT. Choosing the appropriate model will ensure any focusing requirements can be met.

## Key Features

- 2-Megapixel CMOS Sensor
- 30 fps @ 1920x1080
- 2.8 ~ 12 mm, Vari-focal, Remote Focus, P-iris Lens (FD816B-HT)
- Built-in IR Illuminators, Effective up to 30 Meters
- 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
- Support Installation with AM-712 Indoor Conduit Box
- PIR
- VIVOTEK VCA (Video Content Analysis) Support



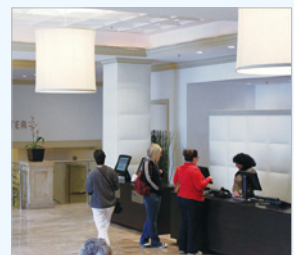
VIVOTEK SNV Camera - Show you true colors in the dark



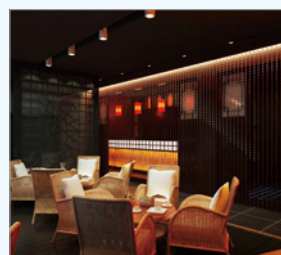
Ordinary Camera



Bank



Hotel



Restaurant



Store

## Technical Specifications

Model	FD816B-HT: Vari-focal, P-iris, Remote Focus FD816B-HF2: Fixed-focal	ONVIF	Supported, specification available at <a href="http://www.onvif.org">www.onvif.org</a>
System Information		Intelligent Video	
CPU	Multimedia SoC (System-on-Chip)	Video Motion Detection	Five-window video motion detection
Flash	1Gb	VCA	Line crossing detection, field detection, loitering detection *Available per project request.
RAM	2Gb	Alarm and Event	
Camera Features		Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection
Image Sensor	1/2.8" Progressive CMOS	Alarm Events	Event notification using digital output, HTTP, SMTP, FTP and NAS server, SD Card File upload via HTTP, SMTP, FTP, NAS server and SD card
Maximum Resolution	1920x1080 (2MP)	General	
Lens Type	FD816B-HT: Vari-focal FD816B-HF2: Fixed-focal	Smart Focus System	FD816B-HT: Remote Focus
Focal Length	FD816B-HT: f = 2.8 ~ 12 mm FD816B-HF2: f = 2.8 mm	Connectors	RJ-45 cable connector for Network/PoE connection Audio input Audio output DC 12V power input Digital input*1 Digital output*1
Aperture	FD816B-HT: F1.8 ~ F2.85 FD816B-HF2: F1.8	LED Indicator	System power and status indicator
Auto-iris	P-iris (FD816B-HT)	Power Input	DC 12V IEEE 802.3af/at PoE Class 0
Field of View	FD816B-HT: 42° ~ 105° (Horizontal) 24° ~ 57° (Vertical) 49° ~ 131° (Diagonal) FD816B-HF2: 110° (Horizontal) 64° (Vertical) 135° (Diagonal)	Power Consumption	FD816B-HT: Max. 13 W FD816B-HF2: Max. 9 W
		Dimensions	Ø 138 x 103 mm
		Weight	541g
			Safety Certifications
Shutter Time	1/5 sec. to 1/32,000 sec.	Operating Temperature	Starting Temperature: 0°C ~ 50°C (32°F~ 122°F) Working Temperature: -10°C ~ 50°C (14°F~ 122°F)
WDR Technology	WDR	Warranty	36 months (FD816B-HT) 24 months (FD816B-HF2)
Day/Night	Removable IR-cut filter for day & night function	System Requirements	
Minimum Illumination	FD816B-HT: 0.03 Lux @ F1.8 (Color) 0.001 Lux @ F1.8 (B/W) FD816B-HF2: 0.06 Lux @ F1.8 (Color) 0.001 Lux @ F1.8 (B/W)	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
Pan/tilt/zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)	Included Accessories	
IR Illuminators	Built-in IR illuminators, effective up to 30 meters with Smart IR IR LED*8	CD	User's manual, quick installation guide, Installation Wizard 2
On-board Storage	Slot type: Micro SD/SDHC/SDXC card slot Seamless Recording	Others	Quick installation guide, warranty card, alignment sticker/desiccant bag, screw pack
Video			
Compression	H.264 & MJPEG		
Maximum Frame Rate	30 fps @ 1920x1080 In both compression modes		
Maximum Streams	4 simultaneous streams		
S/N Ratio	58dB		
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	Built-in microphone External line 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.		

Dimensions

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## Compatible Accessories

### Mounting Kits



**AM-215 (v02)**  
L Shape Bracket



**AM-514 (v01)**  
Adapter Ring



**AM-527 (v01)**  
Mounting Adapter



**AM-712**  
Conduit Box

### PoE Kits



**AP-FXC-0201**  
PoE Extender with  
Conduit Box