



# 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



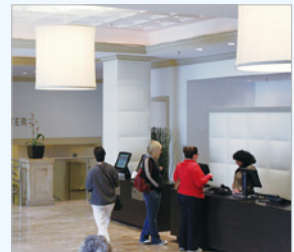
VIVOTEK SNV Camera - Show you true colors in the dark



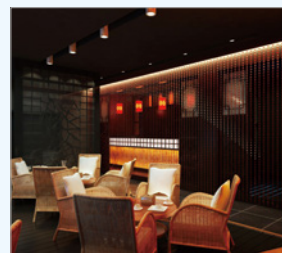
Ordinary Camera



Bank



Hotel

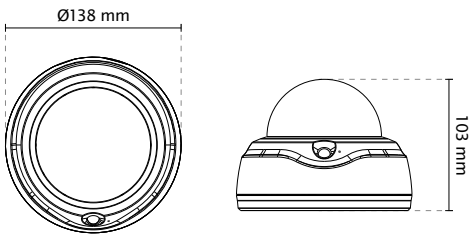


Restaurant








Store

## Technical Specifications

<b>Model</b>	FD816B-HT: Vari-focal, P-iris, Remote Focus FD816B-HF2: Fixed-focal	<b>ONVIF</b>	Supported, specification available at <a href="http://www.onvif.org">www.onvif.org</a>
<b>System Information</b>		<b>Intelligent Video</b>	
<b>CPU</b>	Multimedia SoC (System-on-Chip)	<b>Video Motion Detection</b>	Five-window video motion detection
<b>Flash</b>	1Gb	<b>VCA*</b>	Line crossing detection, field detection, loitering detection
<b>RAM</b>	2Gb	<b>Alarm and Event</b>	
<b>Camera Features</b>		<b>Alarm Triggers</b>	Video motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection
<b>Image Sensor</b>	1/2.8" Progressive CMOS	<b>Alarm Events</b>	Event notification using digital output, HTTP, SMTP, FTP and NAS server, SD Card File upload via HTTP, SMTP, FTP, NAS server and SD card
<b>Maximum Resolution</b>	1920x1080 (2MP)	<b>General</b>	
<b>Lens Type</b>	FD816B-HT: Vari-focal FD816B-HF2: Fixed-focal	<b>Smart Focus System</b>	FD816B-HT: Remote Focus
<b>Focal Length</b>	FD816B-HT: f = 2.8 ~ 12 mm FD816B-HF2: f = 2.8 mm	<b>Connectors</b>	RJ-45 cable connector for Network/PoE connection Audio input Audio output DC 12V power input Digital input*1 Digital output*1
<b>Aperture</b>	FD816B-HT: F1.8 ~ F2.85 FD816B-HF2: F1.8	<b>LED Indicator</b>	System power and status indicator
<b>Auto-iris</b>	P-iris (FD816B-HT)	<b>Power Input</b>	DC 12V IEEE 802.3af/at PoE Class 0
<b>Field of View</b>	FD816B-HT: 42° ~ 105° (Horizontal) 24° ~ 57° (Vertical) 49° ~ 131° (Diagonal) FD816B-HF2: 110° (Horizontal) 64° (Vertical) 135° (Diagonal)	<b>Power Consumption</b>	FD816B-HT: Max. 13 W FD816B-HF2: Max. 9 W
<b>Shutter Time</b>	1/5 sec. to 1/32,000 sec.	<b>Dimensions</b>	Ø 138 x 103 mm
<b>WDR Technology</b>	WDR	<b>Weight</b>	541g
<b>Day/Night</b>	Removable IR-cut filter for day & night function	<b>Safety Certifications</b>	FD816B-HT: CE, LVD, FCC Class B, VCCI, C-Tick, UL FD816B-HF2: CE, LVD, FCC Class B, VCCI, C-Tick
<b>Minimum Illumination</b>	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)	<b>Operating Temperature</b>	Starting Temperature: 0°C ~ 50°C (32°F ~ 122°F) Working Temperature: -10°C ~ 50°C (14°F ~ 122°F)
<b>Pan/tilt/zoom Functionalities</b>	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)	<b>Warranty</b>	36 months (FD816B-HT) 24 months (FD816B-HF2)
<b>IR Illuminators</b>	Built-in IR illuminators, effective up to 30 meters with Smart IR IR LED*8	<b>System Requirements</b>	
<b>On-board Storage</b>	Slot type: Micro SD/SDHC/SDXC card slot Seamless Recording	<b>Operating System</b>	Microsoft Windows 7/8/Vista/XP/2000
<b>Video</b>		<b>Web Browser</b>	Mozilla Firefox 7~10 (streaming only) Internet Explorer 7/8/9/10/11
<b>Compression</b>	H.264 & MJPEG	<b>Other Players</b>	VLC: 1.1.11 or above Quicktime: 7 or above
<b>Maximum Frame Rate</b>	30 fps @ 1920x1080 In both compression modes	<b>Included Accessories</b>	
<b>Maximum Streams</b>	4 simultaneous streams	<b>CD</b>	User's manual, quick installation guide, Installation Wizard 2
<b>S/N Ratio</b>	58dB	<b>Others</b>	Quick installation guide, warranty card, alignment sticker/desiccant bag, screw pack
<b>Dynamic Range</b>	100dB	<b>Dimensions</b>	
<b>Video Streaming</b>	Adjustable resolution, quality and bitrate; Smart Stream		
<b>Image Settings</b>	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>			
<b>Audio Capability</b>	Two-way Audio (full duplex)		
<b>Compression</b>	G.711, G.726		
<b>Interface</b>	Built-in microphone External line output		
<b>Network</b>			
<b>Users</b>	Live viewing for up to 10 clients		
<b>Protocols</b>	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		
<b>Interface</b>	10 Base-T/100 Base-TX Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.		

\* Available per project request.

## Compatible Accessories

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

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