VIVOTEK

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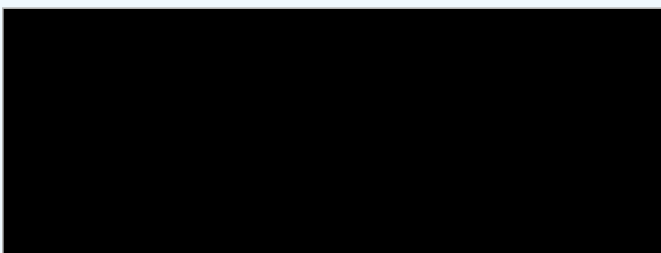
When selecting the VIVOTEK FD816B-H series, customers will be offered two options: the FD816B-HF2, and the FD816B-HT. Choosing the appropriate model will ensure any focusing requirements can be met.

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

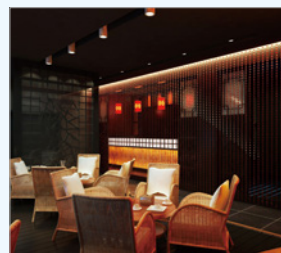VIVOTEK SNV Camera - Show you true colors in the dark
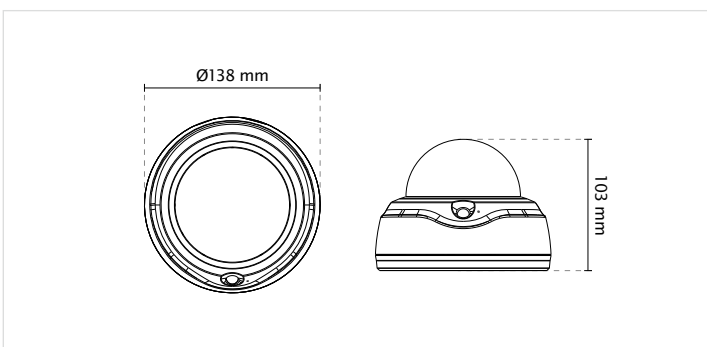

Ordinary Camera

Bank

Restaurant

Hotel

Store

Technical Specifications

Model	FD816B-HT: Vari-focal, P-iris, Remote Focus FD816B-HF2: Fixed-focal
System Information	
CPU	Multimedia SoC (System-on-Chip)
Flash	1Gb
RAM	2Gb
Camera Features	
Image Sensor	1/2.8" Progressive CMOS
Maximum Resolution	1920x1080 (2MP)
Lens Type	FD816B-HT: Vari-focal FD816B-HF2: Fixed-focal
Focal Length	FD816B-HT: f = 2.8 ~ 12 mm FD816B-HF2: f = 2.8 mm
Aperture	FD816B-HT: F1.8 ~ F2.85 FD816B-HF2: F1.8
Auto-iris	P-iris (FD816B-HT)
Field of View	FD816B-HT: 42˚ ~ 105˚ (Horizontal) 24˚ ~ 57˚ (Vertical) 49˚ ~ 131˚ (Diagonal) FD816B-HF2: 110˚ (Horizontal) 64˚ (Vertical) 135˚ (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	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)
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
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.

ONVIF	Supported, specification available at www.onvif.org
Intelligent Video	
Video Motion Detection	Five-window video motion detection
VCA	Line crossing detection, field detection, loitering detection *Available per project request.
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 and NAS server, SD Card File upload via HTTP, SMTP, FTP, NAS server and SD card
General	
Smart Focus System	FD816B-HT: Remote Focus
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	FD816B-HT: Max. 13 W FD816B-HF2: Max. 9 W
Dimensions	Ø 138 x 103 mm
Weight	541g
Safety Certifications	FD816B-HT: CE, LVD, FCC Class B, VCCI, C-Tick, UL FD816B-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	36 months (FD816B-HT) 24 months (FD816B-HF2)
System Requirements	
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
Included Accessories	
CD	User's manual, quick installation guide, Installation Wizard 2
Others	Quick installation guide, warranty card, alignment sticker/desiccant bag, screw pack

Dimensions

Ø138 mm

103 mm

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

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