



FD816BA-HT



FD816BA-HF2

Fixed Dome Network Camera



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

VIVOTEK's FD816BA-H is a series of indoor dome network cameras equipped with a Full HD sensor enabling viewing resolution of 1920x1080 at 30 fps. Featuring VIVOTEK's WDR and SNV technology, the series is capable of capturing high quality and high visibility video whether in high contrast or low light environments.

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.

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.

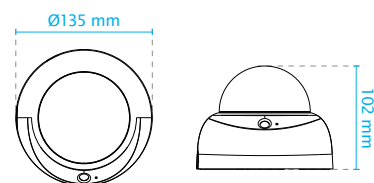
Key Features

- 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
- SNV (Supreme Night Visibility) for Low Light Conditions
- 3D Noise Reduction
- 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 |
| System Information | |
| CPU | Multimedia SoC (System-on-Chip) |
| Flash | 1Gb |
| RAM | 2Gb |
| Camera Features | |
| 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° ~ 107° (Horizontal) 19° ~ 56° (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: 0.1 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 |
| 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 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, NAS server and SD Card File upload via HTTP, SMTP, FTP, NAS server and SD card |
| General | |
| 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 |
| 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, VAST 32-channel recording software |
| Others | Quick installation guide, warranty card, alignment sticker/desiccant bag, screw pack |
| Dimensions | |



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 |