

# FD816C-HF2

Fixed Dome Network Camera



2MP · WDR Pro · 3DNR · PoE · Compact Size · SNV  
Recessed Mount · Smart Stream

The VIVOTEK FD816C-HF2 is a recessed-mount fixed dome network camera offering up to 30 fps at 2-Megapixel resolution with superb image quality, even in the darkest hours of the night. Due to its compact size, the camera is able to blend into any surroundings such as banks, retail stores, restaurants, offices and more.

Featuring the improved Wide Dynamic Range Technology, WDR Pro, the FD816C-HF2 provides superior visibility in high-contrast lighting environments with a 2-shutter capture method, and with SNV technology, it makes high-quality full-color surveillance video possible under low-light conditions. At the other end of the spectrum, 3D Noise Reduction Technology allows users to enjoy an increased level of image detail in extremely dark environments without consuming or wasting unreasonably high bandwidth.

To dramatically reduce file sizes and conserve valuable network bandwidth, the FD816C-HF2 supports Smart Stream and industry-standard H.264 compression technology. Combined with the ST7501 multi-lingual 32-channel recording software, users can quickly and easily set up an IP surveillance system that's simple to operate but hard to beat.

## Key Features

- 2-Megapixel CMOS Sensor
- 30 fps @ 1920 x 1080
- WDR Pro (100dB) to Provide Extreme Visibility in High Light Contrast Scenes
- SNV (Supreme Night Visibility)
- 3D Noise Reduction for Low-light Conditions
- Smart Stream to Optimize Bandwidth Efficiency
- Built-in IEEE 802.3af Compliant PoE
- Real-time H.264 and MJPEG Compression (Dual Codec)
- 70° Tilt Lens



The World's Smallest Recessed Mount Fixed Dome Network Camera



Library



Bank



Retail



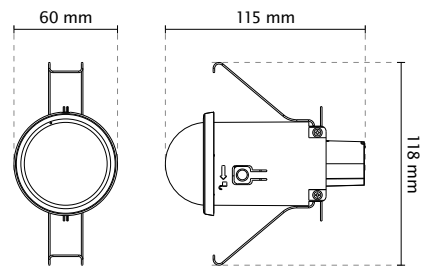
Office

## Technical Specifications

Model	FD816C-HF2
<b>System Information</b>	
CPU	Multimedia SoC (System-on-Chip)
Flash	128MB
RAM	256MB
<b>Camera Features</b>	
Image Sensor	1/2.8" Progressive CMOS
Maximum Resolution	1920x1080 (2MP)
Lens Type	Fixed-focal
Focal Length	2.8 mm
Aperture	F1.8
Field of View	109° (horizontal) 61° (vertical) 132° (diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro
Minimum Illumination	0.07 Lux @ F1.8 (Color)
Pan/tilt/zoom Functionalities	ePTZ: 4x digital zoom IE plug-in
On-board Storage	Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording
<b>Video</b>	
Compression	H.264 & MJPEG
Maximum Frame Rate	30 fps @ 1920x1080
Maximum Streams	3 simultaneous streams
S/N Ratio	58.48 dB
Dynamic Range	100 dB
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, 3DNR
<b>Audio</b>	
Audio Capability	One-way Audio
Compression	G.711, G.726
Interface	Built-in Microphone
Effective Range	5 Meters
<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	10Base-T/100BaseTX Ethernet (RJ-45) *It is highly recommended to use standard Cat. 5e & Cat. 6 cables which are compliant with the 3P/ETL standard.
ONVIF	Supported, specification available at <a href="http://www.onvif.org">www.onvif.org</a>
<b>Intelligent Video</b>	
Video Motion Detection	Five-window video motion detection
<b>Alarm and Event</b>	
Alarm Triggers	Motion detection, manual trigger, periodical trigger, system boot, recording notification, camera tampering detection, audio detection
Alarm Events	Event notification using HTTP, SMTP, FTP and NAS server, SD Card File upload via HTTP, SMTP, FTP, NAS server and SD card
<b>General</b>	
Connectors	RJ-45 for Network/PoE connection
LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 1
Power Consumption	Max. 3.3W
Dimensions	Ø 60 x 115 mm
Weight	Net: 138g
Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL
Operating Temperature	Starting Temperature: 0°C ~ 45°C (32°F ~ 113°F) Working Temperature: 0°C ~ 45°C (32°F ~ 113°F)
Warranty	24 months
<b>System Requirements</b>	
Operating System	Microsoft Windows 8/7/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>	
Others	Quick installation guide

## Dimensions



## Compatible Accessories

### Mounting Kits



**AM-526**  
Pendant mount adapter for  
3/4" NPT Pipe

### Dome Covers



**AC-227**  
Transparent Cover  
(Plastic Case)



**AC-229**  
Transparent Cover  
(IK10 Case)

## Cloud-based Solution

