



IP816A-HP

Fixed Network Camera



2MP · WDR Pro · SNV · 3DNR · Remote Back Focus · EIS · P-iris · 60 fps · Snapshot Focus · Corridor View

The VIVOTEK IP816A-HP is a professional box network camera offering up to 60 fps @ 2-Megapixel resolution with superb image quality, even in the darkest hours of the night.

Featuring the improved Wide Dynamic Range Technology, WDR Pro, the IP816A-HP provides superior visibility in high-contrast lighting environments with 2-shutter capture method. When combined with 3D Noise Reduction Technology, users can enjoy an increased level of image detail in extremely dark environments without consuming or wasting unreasonably high bandwidth.

To provide top-notch image quality, IP816A-HP also comes with a P-iris lens, which controls the iris with extreme precision with its built-in stepper motor. Controlled by advanced software, the lens maintains the iris opening at an optimal level at all times, resulting in superior sharpness and depth of field. VIVOTEK knows that accurately focusing a megapixel network camera can be difficult due to the level of image detail. In order to help installers properly adjust the focus of this high resolution camera, the IP816A-HP is also equipped with VIVOTEK's RBF (Remote Back Focus) System, allowing installers to adjust focus even more accurately.

Key Features

- 2-Megapixel CMOS Sensor
- 30fps @ 1920x1080
- 60fps @ 1920x1080 (one-stream mode only)
- P-iris Lens
- 3D Noise Reduction for Low-light Conditions
- WDR Pro (100dB) to Provide Extreme Visibility in High Light Contrast Scenes
- RBF System to Assist for Precise Focus Adjustment
- EIS (Electronic Image Stabilization) to Control Image Stability
- Two-way Audio
- Snapshot Focus
- Video Rotation for Corridor View
- SNV (Supreme Night Visibility)



Without WDR Pro

With WDR Pro



Train Station



Traffic Monitoring



Ordinary Camera

With SNV Camera

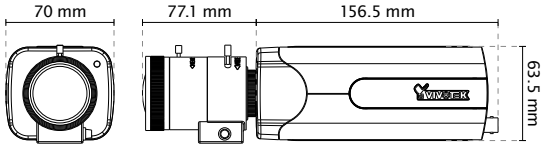


Tunnel Monitoring



Parking Lot

Technical Specifications

Model	IP816A-HP	Alarm Triggers	Video motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection
System Information		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
CPU	Multimedia SoC (System-on-Chip)	General	
Flash	256 MB	Smart Focus System	RBF (Remote Back Focus)
RAM	384 MB	Connectors	RJ-45 for Network/PoE connection Audio input/output BNC Video output AC 24V power input DC 12V power input Digital input*3 Digital output*1 RS485
Camera Features		LED Indicator	System power and status indicator
Image Sensor	1/1.9" Progressive CMOS	Power Input	DC12V/AC24V IEEE 802.3af PoE
Maximum Resolution	1920x1080 (2MP)	Power Consumption	DC Max. 9.2W AC Max. 15.4W PoE Max.12.2W
Lens Type	Vari-focal	Dimensions	233.6 (D) x 70 (W) x 63.5 (H) mm
Focal Length	f = 3.6 ~ 17 mm	Weight	Net: 632 g (without lens) Net: 755 g (with lens)
Aperture	F1.5 ~ F2.8	Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL
Auto-iris	P-iris (DC-iris reserved)	Operating Temperature	Starting Temperature: 0°C ~ 60°C (32°F ~ 140°F) Working Temperature: -10°C ~ 60°C (14°F ~ 140°F)
Field of View	27° ~ 109° (Horizontal) 16° ~ 64° (Vertical) 31° ~ 127° (Diagonal)	Warranty	36 months
Shutter Time	1/5 sec. to 1/10,000 sec.	System Requirements	
WDR Technology	WDR Pro	Operating System	Microsoft Windows 8/7/Vista/XP/2000
Day/Night	Removable IR-cut filter for day & night function	Web Browser	Mozilla Firefox 7-10 (streaming only) Internet Explorer 7/8/9/10/11
Minimum Illumination	0.03 Lux @ F1.5 (Color) 0.001 Lux @ F1.5 (B/W)	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	
On-board Storage	SD/SDHC/SDXC card slot	CD	User's manual, quick installation guide, Installation Wizard 2
Video		Others	Quick installation guide, warranty card, lens, camera stand, screw pack
Compression	H.264 & MJPEG	Ordering Info	
Maximum Frame Rate	In both compression mode 30fps @ 1920 x1080 60fps @ 1920 x1080 (In one-stream mode only)	Model Name	Par Number
Maximum Streams	2 simultaneous streams	IP816A-HP	100130400G
S/N Ratio	50.8 dB	IP816A-HP, No Lens	100126300G
Dynamic Range	Up to 100 dB		Description
Video Streaming	Adjustable resolution, quality and bitrate		IP816A-HP Fixed Network Camera with AL-24B
Image Settings	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, EIS, video rotation, snapshot focus		IP816A-HP Fixed Network Camera
Audio		Dimensions	
Audio Capability	Two-way audio (full duplex)		
Compression	AAC, G.711, G.726		
Interface	External microphone input Audio 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		
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	Triple-window video motion detection		
Alarm and Event			

Compatible Accessories

Enclosures



AE-239
Value Series Enclosure,
PoE Input, IP68, IK10,
-20°C ~ 65°C



AE-23E
Supreme Series Enclosure,
optional VAIR illuminator,
PoE Input, IP68, IK10,
-20°C ~ 65°C



AE-244
Value Series Enclosure,
built-in fixed 50M IR,
PoE Input, IP68, IK10,
-20°C ~ 65°C

Lens



AL-239
8mm ~ 80mm,
F1.6, DC-iris



AL-245
12mm ~ 40mm,
F1.8, P-iris