

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 bright as well as 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
- Supreme Night Visibility



With WDR Pro

Without WDR Pro



With SNV Camera

Ordinary Camera



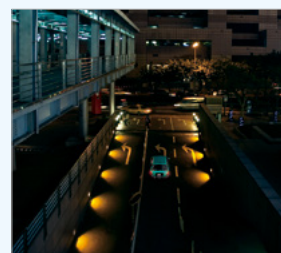
Train Station



Traffic Monitoring



Tunnel Monitoring



Parking Lot

Technical Specifications

Model	IP816A-HP
System Information	
CPU	Multimedia SoC (System-on-Chip)
Flash	256 MB
RAM	384 MB
Camera Features	
Image Sensor	1/1.9" Progressive CMOS
Maximum Resolution	1920x1080 (2MP)
Lens Type	Vari-focal
Focal Length	f = 4 ~ 18 mm
Aperture	F1.4 ~ F13
Auto-iris	P-iris (DC-iris reserved)
Field of View	29° ~ 106° (Horizontal) 16° ~ 60° (Vertical) 33° ~ 130° (Diagonal)
Shutter Time	1/5 sec. to 1/10,000 sec.
WDR Technology	WDR Pro
Day/Night	Removable IR-cut filter for day & night function
Minimum Illumination	0.03 Lux @ F1.4 (Color) 0.001 Lux @ F1.4 (B/W)
Pan/tilt/zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)
On-board Storage	SD/SDHC/SDXC card slot
Video	
Compression	H.264 & MJPEG
Maximum Frame Rate	30fps @ 1920 x1080 60fps @ 1920 x1080 (In one-stream mode only) (In both compression mode)
Maximum Streams	2 simultaneous streams
S/N Ratio	50.8 dB
Dynamic Range	Up to 100 dB
Video Streaming	Adjustable resolution, quality and bitrate
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
Audio	
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/RTMP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP
Interface	10Base-T/100 BaseTX Ethernet (RJ-45)
ONVIF	Supported, specification available at www.onvif.org

Intelligent Video

Video Motion Detection Triple-window video motion detection

Alarm and Event

Alarm Triggers Video 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 RBF (Remote Back Focus)

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

LED Indicator System power and status indicator

Power Input DC12V/AC24V
IEEE 802.3af PoE

Power Consumption DC Max. 9.2W
AC Max. 15.4W
PoE Max.12.2W

Dimensions 231 mm (D) x 70 mm (W) x 61 mm (H)

Weight Net: 632g

Safety Certifications CE, LVD, FCC Class B, VCCI, C-Tick, UL

Operating Temperature Starting Temperature: 0°C ~ 60°C (32°F~ 122°F)
Working Temperature: -10°C ~ 60°C (14°F~ 122°F)

Warranty 36 months

System Requirements

Operating System Microsoft Windows 8/7/Vista/XP/2000

Web Browser Mozilla Firefox 7-10 (streaming only)
Internet Explorer 7/8/9/10

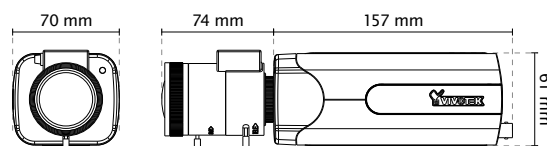
Other Players VLC: 1.1.11 or above
Quicktime: 7 or above

Included Accessories

CD User's manual, quick installation guide, Installation Wizard 2, ST7501 32-channel recording software

Others Quick installation guide, warranty card, lens, camera stand, screw pack

Dimensions



Compatible Accessories

Enclosures



AE-211
Camera enclosure
with blower



AE-232
Camera enclosure
with heater and
blower



AE-233
Camera enclosure
with heater and
blower



AE-234
Camera enclosure
with blower and
IR (IK10)



AE-235
Camera enclosure
with blower and IR

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