



# 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

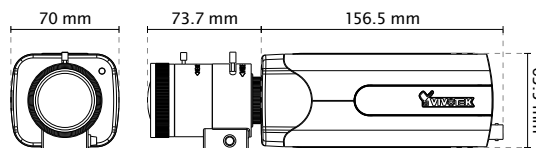
Model	IP816A-HP
<b>System Information</b>	
CPU	Multimedia SoC (System-on-Chip)
Flash	256 MB
RAM	384 MB
<b>Camera Features</b>	
Image Sensor	1/1.9" Progressive CMOS
Maximum Resolution	1920x1080 (2MP)
Lens Type	Vari-focal
Focal Length	f = 3.6 ~ 17 mm
Aperture	F1.5 ~ F2.8
Auto-iris	P-iris (DC-iris reserved)
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 @ F1.5 (Color) 0.001 Lux @ F1.5 (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
<b>Video</b>	
Compression	H.264 & MJPEG
Maximum Frame Rate	In both compression mode 30fps @ 1920 x1080 60fps @ 1920 x1080 (In one-stream mode only)
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
<b>Audio</b>	
Audio Capability	Two-way audio (full duplex)
Compression	AAC, G.711, G.726
Interface	External microphone input Audio output
<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
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 <a href="http://www.onvif.org">www.onvif.org</a>
<b>Intelligent Video</b>	
Video Motion Detection	Triple-window video motion detection
<b>Alarm and Event</b>	

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
<b>General</b>	
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	230.2 mm (D) x 70 mm (W) x 63.5 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 ~ 140°F) Working Temperature: -10°C ~ 60°C (14°F ~ 140°F)
Warranty	36 months
<b>System Requirements</b>	
Operating System	Microsoft Windows 8/7/Vista/XP/2000
Web Browser	Mozilla Firefox 7-10 (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>	
CD	User's manual, quick installation guide, Installation Wizard 2
Others	Quick installation guide, warranty card, lens, camera stand, screw pack

## Ordering Info

Model Name	Par Number	Description
IP816A-HP	100130400G	IP816A-HP Fixed Network Camera with AL-24B
IP816A-HP, No Lens	100126300G	IP816A-HP Fixed Network Camera

## Dimensions



## Compatible Accessories

### Enclosures



**AE-237**  
Camera Enclosure, AC 24V,  
IP66, IK10, -20°C ~ 50°C



**AE-241**  
Camera Enclosure with  
Internal IR, PoE, IP66, IK10,  
-20°C ~ 50°C



**AE-242**  
Camera Enclosure with  
Internal IR, UPoE, IP66, IK10,  
-40°C ~ 50°C

### Lens



**AL-24A**  
12 ~ 40mm, F2.3, P-iris