



# IP8160



# IP8160-W

## Cube Network Camera



2MP · 8M IR · Smart Stream II · AEC · PoE ·  
WiFi · Compact Size

VIVOTEK's IP8160/IP8160-W is a stylish 2-megapixel cube network camera specifically designed for small-scale retail security applications. With a resolution of 1920x1080 at 30 fps, a removable IR-cut filter and built-in IR illuminators effective up to 8 meters, this remarkable camera provides users with superior image quality around the clock.

When coupled with VIVOTEK's Smart Stream II technology, the IP8160/IP8160-W can reduce both bandwidth and storage consumption by up to 50%\* while retaining the same superb image quality as a Full HD camera.

Further, the camera supports two-way audio, and employs Acoustic Echo Cancellation (AEC) to greatly enhance audio quality and provide a clearer, smoother auditory image. VIVOTEK provides two easy-to-install options for this compact camera; the IP8160-W boasts a 802.11b/g/n compatible wireless connection, and the IP8160 is designed for Power over Ethernet (PoE) functionality, making setup of these two powerful cameras both quick and simple.

\* Depending on scenes

### Key Features

- 30 fps @ 1920x1080
- Built-in IR Illuminators up to 8 M
- Smart IR Technology to Avoid Overexposure
- Smart Stream II to Optimize Bandwidth Efficiency
- Built-in Microphone and Speaker for Two-way Audio
- Acoustic Echo Cancellation (AEC) for Optimizing Sound System
- Built-in 802.3af Compliant PoE (IP8160)
- Built-in 802.11 b/g/n WLAN (IP8160-W)
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- Compact Design



IR On



IR Off

## Technical Specifications

Model	IP8160: PoE, 8M IR IP8160-W: WiFi, 8M IR
<b>System Information</b>	
CPU	Multimedia SoC (System-on-Chip)
Flash	128 MB
RAM	256 MB
<b>Camera Features</b>	
Image Sensor	1/2.9" Progressive CMOS
Maximum Resolution	1920x1080
Lens Type	Fixed-focal
Focal Length	f = 2.8 mm
Aperture	F1.8
Field of View	113° (Horizontal) 63° (Vertical) 136° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Enhanced
Day/Night	Removable IR-cut filter for day & night function
Minimum Illumination	0.07 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 8 meters with Smart IR IR LED*2
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 15 fps @ 1920x1080 (Acoustic Echo Cancellation On)
Maximum Streams	3 simultaneous streams
S/N Ratio	70 dB
Dynamic Range	70 dB
Video Streaming	Adjustable resolution, quality and bitrate Smart Stream II
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, defog, 3DNR, video rotation
<b>Audio</b>	
Audio Capability	Two-way Audio (Full duplex)
Compression	G.711, G.726

Interface	Built-in microphone Built-in speaker
Effective Range	5 meters
<b>Network</b>	
Users	Live viewing for up to 10 clients
Protocols	IP8160: IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, SSL/TLS, ARP IP8160-W: IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, SNMP, ARP
Interface	IP8160: 10 Base-T/100 Base-TX Ethernet (RJ-45) IP8160-W: IEEE 802.11 b/g/n WLAN
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, NAS server and SD Card File upload via HTTP, SMTP, FTP, NAS server and SD card
<b>General</b>	
Connectors	IP8160: RJ-45 cable connector for 10/100Mbps Network/PoE connection*1 IP8160-W: Micro USB connector for DC 5V power input*1
LED Indicator	System power and status indicator
Power Input	IP8160: IEEE 802.3af POE Class 0 IP8160-W: DC 5V
Power Consumption	IP8160: Max. 5.5 W IP8160-W: Max. 8 W
Dimensions	Ø 66 x 38.9 mm
Weight	IP8160: 100.6 g (Camera unit), 58 g (Stand) IP8160-W: 62 g (Camera unit), 58 g (Stand)
Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick
Operating Temperature	Starting Temperature: 0°C ~ 40°C (32°F ~ 104°F) Working Temperature: 0°C ~ 40°C (32°F ~ 104°F)
Humidity	90%
Warranty	24 months
<b>System Requirements</b>	
Operating System	Microsoft Windows 8/7/Vista/XP/2000

## Technical Specifications

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>	
Power Adapter	IP8160-W: 5V, 2A USB connector adapter
Others	Quick installation guide, warranty card, stand with screw kit, USB connector adapter(IP8160-W)

## Dimensions

