



IP8166

Fixed Network Camera



2MP · Smart Stream II · SNV · WDR Enhanced · 3DNR · Video Rotation · Defog

VIVOTEK's IP8166 is a professional box network camera equipped with a Full HD sensor enabling a viewing resolution of 1920x1080 at a smooth 30 fps. The IP8166 is capable of capturing high quality, high resolution video at up to 2 Megapixels in low light environments with VIVOTEK's SNV technology, making the camera ideal for a wide range of video surveillance applications, including supermarkets, banks, hotels and parking lots and also suitable for many more situations.

Further empowering this professional 24/7 camera, VIVOTEK's Smart Stream II technology enables the IP8166 to optimize quality for a desired region or area and therefore to maximize efficiency of bandwidth usage. The IP8166 can reduce both bandwidth and storage consumption by up to 50%* while still retaining the same excellent image quality as a Full HD camera.

To meet the demands of diverse scenarios, the IP8166 is compatible with a variety of accessories, from external IR LEDs and enclosures, to long-range solutions and PoE total solutions. With the added support and flexibility of an abundance of professional accessories, the IP8166 is an excellent candidate for your total surveillance solution.

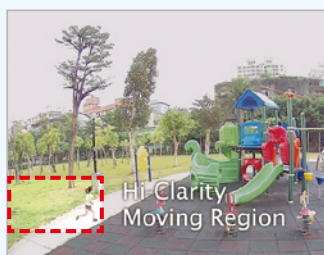
* Depending on scene being monitored.

Smart Stream II

Save up to 50% of bandwidth and storage by optimizing quality for moving regions or ROI.



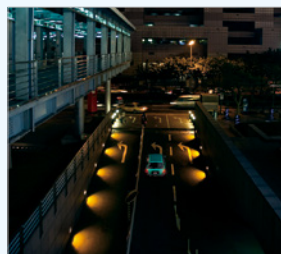
Without Smart Stream II



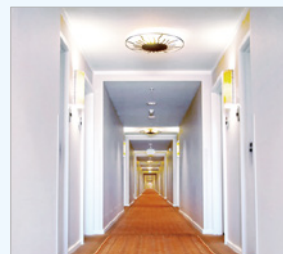
With Smart Stream II

Key Features

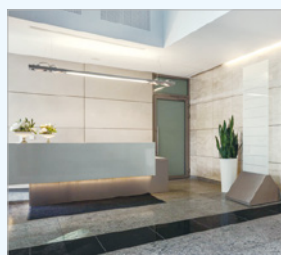
- 2-Megapixel CMOS Sensor
- 30 fps @ 1920x1080
- SNV (Supreme Night Visibility) for Low Light Conditions
- Smart Stream II to Optimize Bandwidth Efficiency
- WDR Enhanced for Unparalleled Visibility in High Contrast Environments
- 3D Noise Reduction for Low-light Conditions
- Video Rotation for Corridor View
- Lens Profile to Ensure the Full Compatibility for Different Lens Options



Low Light



Hotel

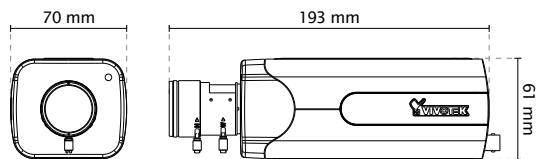


Lobby



Supermarket

Technical Specifications

Model	IP8166	Video Motion Detection	Five-window video motion detection
System Information		VCA*	Line crossing detection, field detection, loitering detection
CPU	Multimedia SoC (System-on-Chip)	Alarm and Event	
Flash	128MB	Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection
RAM	256MB	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
Camera Features		General	
Image Sensor	1/2.8" Progressive CMOS	Connectors	RJ-45 cable connector for 10/100Mbps Network/PoE connection Audio input Audio output DC 12V power input AC 24V Power input Digital input*3 Digital output*1
Maximum Resolution	1920 x1080 (2MP)		
Lens Type	Vari-Focal		
Focal Length	f= 2.8 ~ 12 mm	LED Indicator	System power and status indicator
Aperture	F1.4 ~ F2.4	Power Input	DC 12V AC 24V IEEE 802.3af PoE Class 0
Auto-iris	DC-Iris (P-iris reserved)	Power Consumption	Max. 6.8 W
Field of View	38° ~ 101° (Horizontal)	Dimensions	193 (D) x 70 (W) x 61 (H) mm
	21° ~ 63° (Vertical)	Weight	626 g
	40° ~ 122° (Diagonal)	Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL
Shutter Time	1/5 sec. to 1/32,000 sec.	Operating Temperature	Starting Temperature: 0°C ~ 50°C (32°F ~ 122°F) Working Temperature: -10°C ~ 50°C (14°F ~ 122°F)
WDR Technology	WDR Enhanced	Humidity	90%
Day/Night	Removable IR-cut filter for day & night function	Warranty	36 months
Minimum Illumination	0.08 Lux @ F1.4 (Color) 0.001 Lux @ F1.4 (B/W)	System Requirements	
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)	Operating System	Microsoft Windows 8/7/Vista/XP/2000
On-board Storage	Slot Type: SD/SDHC/SDXC card slot Seamless Recording	Web Browser	Mozilla Firefox 7~10 (streaming only) Internet Explorer 7/8/9/10/11
Video		Other Players	VLC: 1.1.11 or above Quicktime: 7 or above
Compression	H.264 & MJPEG	Included Accessories	
Maximum Frame Rate	30 fps@ 1920x1080 In both compression modes	CD	User's manual, quick installation guide, Installation Wizard 2, VAST
Maximum Streams	4 simultaneous streams	Others	Quick installation guide, mounting bracket, screw pack, lens
S/N Ratio	49 dB	Dimensions	
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, video rotation, 3DNR, defog, lens profile		
Audio			
Audio Capability	Two-Way Audio (full duplex)		
Compression	G711, G726		
Interface	External microphone input External line 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, ARP, SSL, TLS		
Interface	10 Base-T/100 Base-TX Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.		
ONVIF	Supported, specifications available at www.onvif.org		
Intelligent Video			

* Available per project request

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

IR Illuminators



AI-104-010/025/035
24W IR LED, distance 100M/50M/25M,
-40°C ~ 50°C, 12~24VDC or 24VAC in