



AB5166

Fixed Network Camera



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

VIVOTEK's AB5166 is a professional box network camera equipped with a Full HD sensor enabling a viewing resolution of 1920x1080 at a smooth 30 fps. The AB5166 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 AB5166 to optimize quality for a desired region or area and therefore to maximize efficiency of bandwidth usage. The AB5166 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 AB5166 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 AB5166 is an excellent candidate for your total surveillance solution.

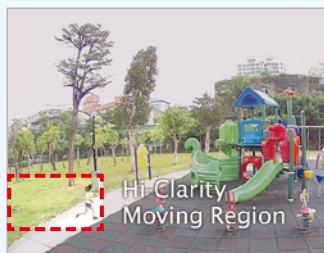
* Depending on scene being monitored.

Smart Stream II

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



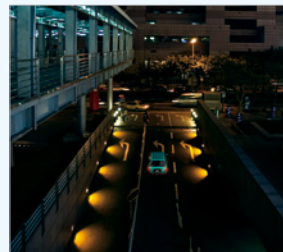
Without Smart Stream II



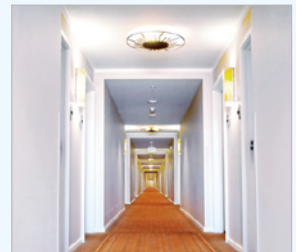
With Smart Stream II

Key Features

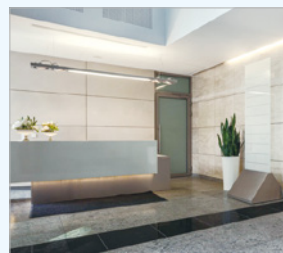
- 2-Megapixel CMOS Sensor
- 30 fps @ 1920x1080
- SNV (Supreme Night Visibility) for Low Light Conditions
- Smart Stream II to Optimize Bandwidth Efficiency
- WDR Enhanced for Unparalleled Visibility in High Contrast Environments
- 3D Noise Reduction for Low-light Conditions
- Video Rotation for Corridor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



Low Light



Hotel

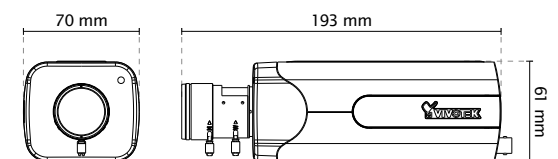


Lobby













Supermarket

Technical Specifications

Model	AB5166	VCA	Line crossing detection, field detection, loitering detection * Available per project request
System Information		Alarm and Event	
CPU	Multimedia SoC (System-on-Chip)	Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection
Flash	128MB	Alarm Events	Event notification using HTTP, SMTP, FTP and NAS server File upload via HTTP, SMTP, FTP and NAS server
RAM	256MB	General	
Camera Features		Connectors	
Image Sensor	1/2.8" Progressive CMOS	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 BNC Output	
Maximum Resolution	1920 x1080 (2MP)	LED Indicator	System power and status indicator
Lens Type	Vari-Focal	Power Input	DC 12V AC 24V IEEE 802.3af PoE Class 0
Focal Length	f= 2.8 ~ 12 mm	Power Consumption	Max. 6.8 W
Aperture	F1.4 ~ F2.4	Dimensions	193 (D) x 70 (W) x 61 (H) mm
Auto-iris	DC-Iris (P-iris reserved)	Weight	626 g
Field of View	38° ~ 101° (Horizontal)	Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL
	21° ~ 63° (Vertical)	Operating Temperature	Starting Temperature: 0°C ~ 50°C (32°F ~ 122°F) Working Temperature: -10°C ~ 50°C (14°F ~ 122°F)
	40° ~ 122° (Diagonal)	Humidity	90%
Shutter Time	1/5 sec. to 1/32,000 sec.	Warranty	36 months
WDR Technology	WDR Enhanced	System Requirements	
Day/Night	Removable IR-cut filter for day & night function	Operating System	Microsoft Windows 8/7/Vista/XP/2000
Minimum Illumination	0.08 Lux @ F1.4 (Color) 0.001 Lux @ F1.4 (B/W)	Web Browser	Mozilla Firefox 7~43 (streaming only) Internet Explorer 7/8/9/10/11
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)	Other Players	VLC: 1.1.11 or above Quicktime: 7 or above
Video		Included Accessories	
Compression	H.264 & MJPEG	Others	Mounting bracket, screw pack, lens
Maximum Frame Rate	30 fps@ 1920x1080 In both compression modes	Dimensions	
Maximum Streams	4 simultaneous streams		
S/N Ratio	49 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, 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			
Video Motion Detection	Five-window video motion detection		

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		
Lens			
	AL-242 CS mount, 12.5 ~ 50 mm, F1.4, P-iris, 1/2.7"		AL-243 CS mount, 7~22 mm, F1.4, P-iris, 1/2.7"
PoE Solution			
	AW-GEV-264A-370 VivoCam L2 Managed 24xGE PoE + 2xGE Combo Switch		AW-FET-080A-120 Unmanaged 8xFE PoE Switch
	AW-IHT-0200 Industrial 1xGE PoE + 1xGE SFP Switch		AW-IHT-0600 Industrial 4xGE PoE + 1xGE Combo + 1xGE SFP Switch