

# VB-M50B

## PTZ NETWORK CAMERA

ITEM CODE: 1064C001

### OVERVIEW

The VB-M50B PTZ Network Camera provides video with remarkable color and clarity, even in very low light environments. The advanced lens with a large aperture ratio ranging from F1.8 (W) to F2.4 (T), a powerful DIGIC DV III Image Processor, and a long-range optical zoom, make this camera ideal for many applications where lighting may be limited, ranging from security and surveillance to web casting. In particular, users will appreciate the ability to capture color video down to .04 lux\*, and black and white down to .002 lux\*.

### KEY FEATURES

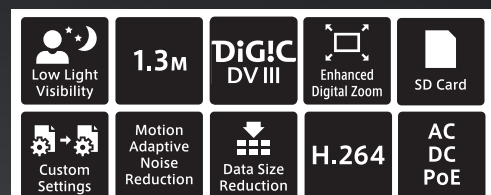
- Advanced Lens with a Large Aperture Ratio Ranging from F1.8 (W) to F2.4 (T) Allows More Light to Reach the Camera's Sophisticated CMOS Image Sensor
- Canon's Powerful DIGIC DV III Image Processor helps to Provide Crisp Images with Remarkable Color Accuracy
- 300°/sec Pan and Tilt Speeds
- 64 Preset Positions with 5 Preset Tour Routes
- Haze Compensation, Smart Shade Control, Auto Gain Control Limit and White Balance Adjustment
- Clear IR Mode with Infrared Bandpass Filter for Improved Image Clarity
- Motion Adaptive Noise Reduction for Reduced Bandwidth Usage when Streaming H.264 codec
- Area-Specific Data Size Reduction (ADSR) to Maintain Video Quality in Important Areas While Reducing Bandwidth Usage
- On-Board Video Analytics
- Canon Camera Management Tool (CCMT) for Centralized Management of all Canon Network Cameras
- Camera Viewer with Mobile Device Support
- Powerful DIGIC NET II Processor allows for Simultaneous Streaming of M-JPEG and H.264 in Multiple Resolutions
- SD Card Slot
- ONVIF Profile S and G Conformant
- 24 VAC / 12 VDC / PoE

\*Low light rating specifications based on: F1.8, shutter speed 1/30, smart shade adjustment off, 50IRE.



### RECOMMENDED MARKETS/APPLICATIONS

- Long-range Low Light Environments
- Security & Surveillance
- Web Casting
- Houses of Worship
- Theaters
- Auditoriums



# SPECIFICATIONS

(the chart below contains an abbreviated list of Specifications  
— for a complete list visit [networkcameras.usa.canon.com](http://networkcameras.usa.canon.com))

		VB-M50B ITEM CODE: 1064C001	
CAMERA	IMAGE SENSOR	1/3" CMOS (RGB)	
	NUMBER OF EFFECTIVE PIXELS	Approx. 1.3 million pixels	
	LENS	5x optical zoom lens with auto focus	
	FOCAL LENGTH	17.7 (W) – 88.5mm (T)	
	F-NUMBER	F1.8 (W) – F2.4 (T)	
	HORIZONTAL VIEWING ANGLE	15.6° (W) – 3.2° (T)	
	VERTICAL VIEWING ANGLE	8.8° (W) – 1.8° (T)	
	DAY/NIGHT	Yes	
	MIN. SUBJECT ILLUMINATION - DAY (COLOR)	.04 lux (F1.8, shutter speed 1/30 sec., when smart shade control is off, 50IRE)	
	MIN. SUBJECT ILLUMINATION - NIGHT (MONOCHROME)	.002 lux (F1.8, shutter speed 1/30 sec., when smart shade control is off, 50IRE)	
	SHUTTER SPEED	1 – 1/16000 sec.	
	SMART SHADE CONTROL	Auto/Manual/Disable; Auto: 3 levels; Manual: 7 levels	
	VIDEO COMPRESSION METHOD	MJPEG, H.264	
	VIDEO SIZE	MJPEG, H.264: 1280 x 720, 640 x 360, 320 x 180 1280 x 960, 640 x 480, 320 x 240	
SERVER	MAXIMUM FRAME RATE	1280 x 960 : 30fps	
	ONVIF VERSION	Profile S, Profile G	
	IPv4 PROTOCOL	TCP/IP, UDP, HTTP, FTP, SNMPv1/v2c/v3 (MIB2), DHCP, DNS, AutoIP, mDNS, ARP, ICMP, POP3, NTP, SMTP, RTP/RTCP, RTSP, SSL/TLS, IPsec, ONVIF, WV-HTTP (Canon proprietary)	
	IPv6 PROTOCOL	TCP/IP, UDP, HTTP, FTP, SNMPv1/v2c/v3 (MIB2), DHCP, DNS, AutoIP, mDNS, ARP, ICMP, POP3, NTP, SMTP, RTP/RTCP, RTSP, SSL/TLS, IPsec, ONVIF, WV-HTTP (Canon proprietary)	
	AUDIO COMMUNICATION METHOD	Full-duplex (two-way) – Echo cancellation function compliant RTP, Sound Transfer Protocol by Canon	
	PRESETS	Number of registers: Max. 64 positions (+Home Position) Number of Preset Tour Route: Max. 5	
	INTELLIGENT FUNCTION - VIDEO	Moving Object Detection, Abandoned Object Detection, Removed Object Detection, Camera Tampering Detection, Passing Detection, and Intrusion Detection	
	INTELLIGENT FUNCTION - AUDIO	Volume Detection, Scream Detection	
	NETWORK TERMINAL	LAN x 1 (RJ45, 100Base-TX (auto/full-duplex/half-duplex))	
	AUDIO INPUT TERMINAL	Ø3.5 mm (Ø0.14 in.) mini-jack connector (mono) LINE IN (connect to an amplifier microphone) or MIC IN (connect to a microphone w/o amplifier)	
INTERFACE	AUDIO OUTPUT TERMINAL	Ø3.5 mm (Ø0.14 in.) mini-jack connector (mono); LINE OUT (connect to an amplifier speaker)	
	EXTERNAL DEVICE I/O TERMINAL	Input x 2, Output x 2	
	MEMORY CARD TYPE	SD Memory Card, SDHC Memory Card, SDXC Memory Card Compatible	
	OPERATING ENVIRONMENT	TEMPERATURE AC, DC, PoE: -10°C – +50°C (+14°F – +122°F)	
POWER SUPPLY	PoE	PoE power supply via LAN connector (IEEE802.3at Type1 compliant)	
	EXTERNAL POWER SOURCE	24 VAC / 12 VDC	
POWER CONSUMPTION	WITH PoE	9.8W	
	WITH 12 VDC	10W	
	WITH 24 VAC	9.6W	
OTHER	DIMENSIONS	(Ø x H) Ø129 x 157 mm (Ø5.08 x 6.18 in.)	
	WEIGHT	Approx. 1170g (2.58 lb.)	
	OUTDOOR READY	No	
	VANDAL RESISTANT	No	

## RECOMMENDED ACCESSORIES



Outdoor Wall Mount  
A-ODW5CS  
Item #1381V096



Wall Mount  
A-SWD5WB3  
Item #2787V308

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