

VB-M50B

Compact, lightweight and innovative PTZ camera with the ultra-low-light performance required in intelligence and evidence-gathering applications.

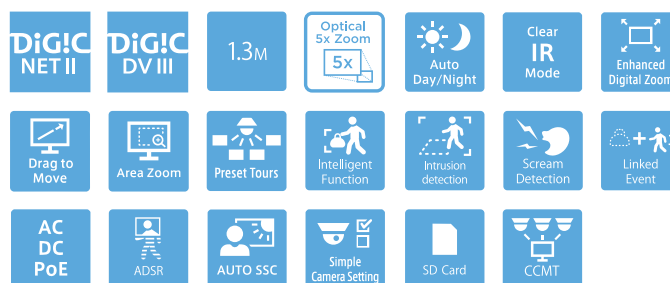
This lightweight 1.3MP PTZ camera boasts a large aperture Canon telephoto lens and a highly sensitive CMOS sensor that delivers exceptional detail in low-light conditions.



- Highly sensitive 1/3" 1.3MP CMOS sensor for exceptional low-light performance
- 5x optical wide aperture zoom lens with distortion-suppressing UD elements
- Unique Clear IR Mode and Motion-Adaptive Noise Reduction
- Enhanced Digital Zoom extends camera's zoom capabilities while maximising image quality
- 8 built-in analytics functions provide intelligent and efficient alarm detection
- Support for multiple web browsers and mobile devices
- Compact, lightweight PTZ design
- ONVIF® Profile S & G

Product Range

VB-R11
VB-H43
VB-M42



Technical Specifications

VB-M50B

| CAMERA | |
|--|---|
| Image Sensor | 1/3 type CMOS (primary color filter) |
| Number of Effective Pixels | Approx. 1.3 million pixels |
| Scanning Method | Progressive |
| Lens | 5x optical zoom (20x digital zoom) auto focus lens |
| Focal Length | 17.7 (W) – 88.5 mm (T) |
| F-number | F1.8 (W) – F2.4 (T) |
| Viewing Angle | For 16:9 aspect ratios: Horizontal: 15.6° (W) – 3.2° (T) Vertical: 8.8° (W) – 1.8° (T) For 4:3 aspect ratios: Horizontal: 15.6° (W) – 3.2° (T) Vertical: 11.7° (W) – 2.4° (T) |
| Day/Night Switch | Auto/Day Mode/Night Mode |
| Min. Subject Illumination | Day Mode (colour): 0.04 lux Night Mode (monochrome): 0.002 lux - (F1.8, 1/30 sec., SSC off, 50IRE) |
| Focus | Auto/One-shot AF/Manual/Fixed at infinity |
| Shooting Distance (from front of lens) | Day Mode: 3.0 m (9.8 ft.) – infinity (W), 5.0 m (16.4 ft.) – infinity (T) Night Mode: 3.0 m (9.8 ft.) – infinity (W), 5.0 m (16.4 ft.) – infinity (T) |
| Shutter Speed | 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000, 1/16000 sec. |
| Exposure | Auto/Auto (Flickerless)/Auto (Shutter-priority AE)/Auto (Aperture-priority AE)/Manual (Shutter Speed, Aperture, Gain) |
| White Balance | Auto/Light Source/Manual Light Source: Daylight Fluorescent/White Fluorescent/Warm Fluorescent/Mercury Lamp/Sodium Lamp/Halogen Lamp Manual: One-shot WB/R Gain/B Gain |
| Metering Mode | Center-Weighted/Average/Spot |
| Exposure Compensation | 9 levels |
| Smart Shade Control | Auto/Manual/Disable, Auto: 3 levels, Manual: 7 levels - Brightens shaded areas of a video |
| Haze Compensation | Auto/Manual/Disable, Auto: 3 levels, Manual: 7 levels |
| AGC Limit | 6 levels |
| Image Stabilizer | 2 levels (digital) |
| Motion-Adaptive NR | Available |
| Clear IR Mode | Available |
| Pan Angle Range | 348° (±174°) |
| Tilt Angle Range | 105° (ceiling-mounted position: -90° – +15°) - When the horizontal direction of the camera is 0° |
| Moving Speed | Pan: Max. 300°/sec. Tilt: Max. 300°/sec. |
| SERVER | |
| Video Compression Method | JPEG, H.264 |
| Video Size | JPEG, H.264: 1280 x 720, 640 x 360, 320 x 180 1280 x 960, 640 x 480, 320 x 240 |
| Video Quality | JPEG, H.264: 10 levels |
| Frame Rate | JPEG: 0.1 – 30 fps H.264: 1/2/3/5/6/10/15/30 fps - Values represent streaming performance from the camera. - The frame rate may be reduced due to Viewer computer's specs, the number of clients accessing at the same time, network loads, video quality setting, type or movement of the subject or other reasons. Maximum frame rate when streaming: H.264(1) (1280 x 720) and H.264(2) (1280 x 720) simultaneously: 15 fps H.264(1) (1280 x 960) and H.264(2) (1280 x 960) simultaneously: 15 fps |
| I-Frame Interval | 0.5/1/1.5/2/3/4/5 sec. |
| Simultaneous Client Access | Max. 30 Clients + 1 Admin Client - H.264: Max. 10 Clients |
| Bit Rate Control | Target Bit Rate: 64/128/256/384/512/768/1024/1536/2048/3072/4096/6144/8192/10240/12288/14336/16384 kbps |
| ADSR: Area-specific Data Size Reduction | Number of Specified Areas: Max. 8 areas Data Size Reduction Level: 3 levels |
| Security | Camera Control: Administrator, Authorized user, Guest user (level of control varies depending on user) Access Control: User authority (user name and password), Host Access Restrictions (IPv4, IPv6) IEEE802.1X: EAP-MD5, EAP-TLS, EAP-TTLS, EAP-PEAP Encrypted Communications: SSL/TLS, IPsec |
| Protocol | IPv4, IPv6, 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 Compression Method | G.711 μ-law (64 kbps) |
| Audio Communication Method | Full-duplex (two-way)/half-duplex - Echo cancellation function compliant RTP, Sound Transfer Protocol by Canon |

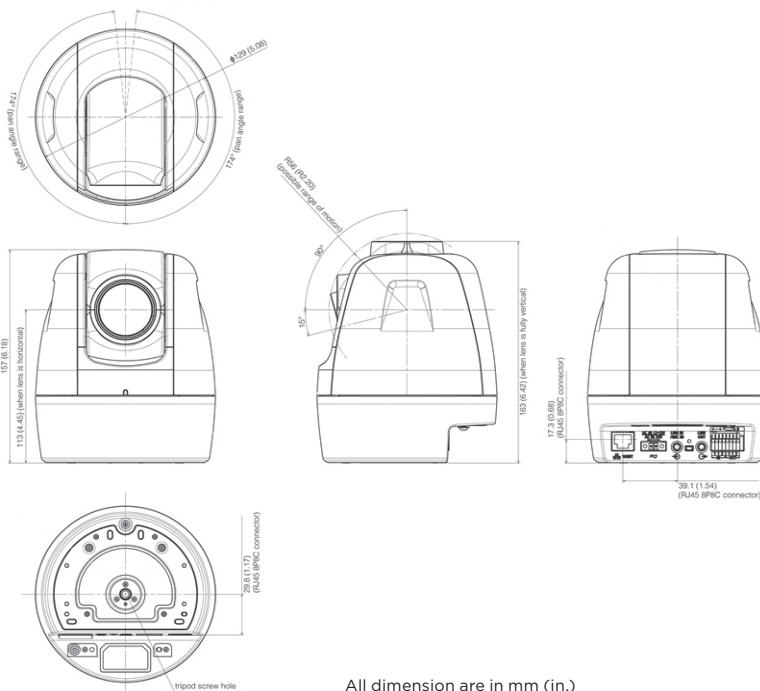
| Audio File Playback | Available (audio files can be played back when an event is triggered by the intelligent function or external device input) - A third-party amplifier speaker is necessary |
|---|--|
| Privacy Mask | Number of registration: Max. 8 places, Number of mask colors: 1 (select from 9 colors) |
| Panorama | Available |
| View Restriction | Available |
| Preset | Number of registers: Max. 64 positions (+Home Position) Number of Preset Tour Route: Max. 5 |
| Intelligent Function | Detection Types: Moving Object Detection, Abandoned Object Detection, Removed Object Detection, Camera Tampering Detection, Passing Detection, and Intrusion Detection Detection Settings: Max. 15 Non-detection Area Settings: Available |
| Intelligent Function | Volume Detection, Scream Detection |
| Event Trigger Type | External Device Input, Intelligent Function (Video), Intelligent Function (Audio), Timer, Day/Night Switch Number of Linked Events: 2 Linked Event Conditions: OR, AND (whether or not there is a sequence to events) |
| Image Upload | FTP/HTTP/SMTP (e-mail) |
| Event Notification | HTTP/SMTP (e-mail) |
| Log Notification | SMTP (e-mail) |
| Image Cropping Function | Digital PTZ Cropping sizes: 640 x 360/512 x 288/384 x 216/256 x 144/128 x 72 640 x 480/512 x 384/384 x 288/256 x 192/128 x 96 |
| Enhanced Digital Zoom | Available |
| Maximum Digital Zoom | 5x/10x/15x/20x |
| On-Screen Display | Available German/English/Spanish/French/Italian/Polish/Russian/Turkish/Korean/Chinese (Simplified) /Japanese |
| Daylight Saving Time | Available |
| INTERFACE | |
| Network Terminal | LAN x 1 (RJ45, 100Base-TX (auto/full-duplex/half-duplex)) |
| Audio Input Terminal (common for LINE IN & MIC IN) | Φ3.5 mm (Φ0.14 in.) mini-jack connector (monaural) LINE IN (connect to an amplifier microphone) or MIC IN (connect to a microphone w/o amplifier) - Switch LINE IN/MIC IN in the setting page. |
| Audio Output Terminal (LINE OUT) | Φ3.5 mm (Φ0.14 in.) mini-jack connector (monaural) LINE OUT (connect to an amplifier speaker) |
| External Device I/O Terminal | Input x 2, Output x 2 |
| Memory Card | SD Memory Card, SDHC Memory Card, SDXC Memory Card Compatible. Recorded Content: Log, Video (Event, Manual, ONVIF, Timer, Upload) Frame Rate: Max. 1 fps (JPEG) Max. 30 fps (H.264) - To insure reliability in the recording speed, it is recommended to use CLASS 10 rated products. Even when using CLASS 10 products, reliability cannot be guaranteed during heavy access loads (e.g., when recording and deleting data at the same time). |
| OTHER | |
| Operating Environment | Temperature AC, DC, PoE: -10°C – +50°C (+14°F – +122°F) Humidity 5% – 85% (without condensation) |
| Storage Environment | Temperature -30°C – +60°C (-22°F – +140°F) Humidity 5% – 90% (without condensation) |
| Installation Method | Ceiling mount/Desktop - Canon will not guarantee proper operation if the cameras are installed on surfaces where the angle is more than ±5° from horizontal or on walls, because this will put a heavy load onto sliding mechanical parts and may affect durability. |
| Power Supply | PoE: PoE power supply via LAN connector (IEEE802.3at Type1 compliant) AC Adapter: PA-V18 (100 – 240 V AC) (sold separately) External power source: 24 V AC/12 V DC |
| Power Consumption | PoE: Max. approx. 9.8 W* AC Adapter PA-V18: Max. approx. 11.2 W (100 V AC) Max. approx. 11.2 W (240 V AC) DC: Max. approx. 10 W AC: Max. approx. 9.6 W * Class 0 power sourcing equipment (requests 15.4 W) |
| Dimensions | (Φ x H) Φ129 x 157 mm (Φ5.08 x 6.18 in.) - Camera only |
| Weight | Approx. 1170 g (2.58 lb.) |

Technical Specifications

VB-M50B

| | |
|---|---|
| International Standard | EN55032 Class B, FCC part15 subpart B Class B, ICES-003 Class B, VCCI Class B, RCM AS/NZS EN55032 Class B, CNS13438 Class B, KN32 Class B, EN55024, KN35, EN50581 IEC/UL/EN60950-1, EN50130-4 |
| APPLICATION | |
| Viewer | Camera Viewer Mobile Camera Viewer |
| Camera software | Camera Management Tool Recorded Video Utility |
| Language | German/English/Spanish/French/Italian/Polish/Russian/Turkish/Thai/ Korean/Chinese (Simplified) /Japanese |
| Operating System/ Compatible Browser | Windows 7, Internet Explorer 11/Chrome 65 Windows 8.1, Internet Explorer 11/Chrome 65 Windows 10, Internet Explorer 11/Microsoft Edge/Chrome 65 Windows Server 2008, Internet Explorer 9 Windows Server 2008 R2, Internet Explorer 11/Chrome 65 Windows Server 2012, Internet Explorer 10/Chrome 65 Windows Server 2012 R2, Internet Explorer 11/Chrome 65 Windows Server 2016, Internet Explorer 11/Chrome 65 |
| Verified Mobile Devices | Surface, iPad, iPhone, Nexus, Galaxy |

Dimensions



All dimension are in mm (in.)

What's in the box?

- VB-M50B Main Unit
- Power Connector(L-type)
- Power Connector(Straight)
- Before Using this Camera
- EAC-Supported Guide
- Installation Guide
- Warranty Card
- Packaging

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Sales Start Date: May 2016

VB-M50B



Product Details:

| Product Name | Mercury Code | EAN Code |
|--------------|--------------|---------------|
| VB-M50B | 1064C001AC | 4549292065756 |

Measurement / Logistic Information:

| Product Name | Mercury code | Pack type | Pack description | Quantity per pack | Length (mm) | Width (mm) | Height (mm) | Net Weight (kg) | Gross Weight (Kg) |
|--------------|--------------|-----------|------------------|-------------------|-------------|------------|-------------|-----------------|-------------------|
| VB-M50B | 1064C001AC | EA | Each | 1 | 180 | 228 | 207 | 1.2 | 1.7 |
| | | CT | Carton | 6 | 564 | 436 | 264 | 7.0 | |
| | | EP | Euro Pallet | 12 | | | | 14.0 | |