VB-R13

High end indoor PTZ camera with camera with powerful zoom capabilities and superb low light performance.

Versatile PTZ camera featuring a bright 30x zoom lens, 1/3” Full HD CMOS sensor and multiple built-in analytic functions.

- 30x optical zoom with fast, accurate auto focus and superb low-light performance
- Accurate subject tracking with continuous panning and Auto-Flip
- Enhanced Digital Zoom extends the camera’s zoom capabilities while maximising image quality
- Motion Adaptive Noise Reduction and Area-Specific Data Size Reduction (ADSR) maintains video quality while reducing bandwidth usage
- Built-in analytics functions for intelligent and efficient alarm detection
- Configuration and live streaming support across multiple web browsers and mobile devices
- ONVIF® Profile S and Profile G compliant

**Product Range**

- VB-R13
- VB-R11
- VB-H43/B
- VB-M50B
- VB-M42/B
CAMERA

Image Sensor: 1/3-type CMOS (primary color filter)
Number of Effective Pixels: Approx. 2.1 million pixels
Scanning Method: Progressive
Lens: 35 mm optical zoom (20x digital zoom) lens with auto focus
F-Number: F1.4 – F8.0 (T)
Viewing Angle: For 16/9 aspect ratios: Horizontal: 63.6° (W) – 2.2° (T) Vertical: 36.8° (W) – 1.7° (T)
For 4:3 aspect ratios: Horizontal: 48.7° (W) – 1.7° (T) Vertical: 24.4° (W) – 0.8° (T)
Day/Night Switch: Auto / Day Mode / Night Mode
Max. Subject Illumination: Day Mode: outdoor 0.02 lux (F/4, shutter speed 1/30 sec., SSC off, 50IRE)
Night Mode (monochrome): 0.002 lux (F/4, shutter speed 1/30 sec., SSC off, 50IRE)
Smoked Dome fitted (sold separately): Day Mode: 0.1 lux (F/4, shutter speed 1/30 sec., SSC off, 50IRE)
Night Mode (monochrome): 0.004 lux (F/4, shutter speed 1/30 sec., SSC off, 50IRE)
Focusing: Auto / One-shot AF / Manual / Fixed at infinity
Shooting Distance (from front of lens): Day Mode: 0.3 m (12 in.) – infinity (W), 2.0 m (6.6 ft.) – infinity (T)
Night Mode: 1.0 m (3.3 ft.) – infinity (W), 2.0 m (6.6 ft.) – infinity (T)
Shutter Speed: 1/2, 1/4, 1/8, 1/10, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 sec.
Exposure: Auto / Auto (Flexible) / 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 / Ionization Lamp
Metering Mode: Centre-weighted/Average/Spot
Viewing Mode: Center-weighted/Average/Spot
Exposure Compensation: 9 levels
Smart Shade Control: Auto / Manual / Disable, Auto: 3 levels, Manual: 7 levels
AGC Limit: 6 levels
Image Stabilizer: 2 levels (digital)
Mollon-Adaptive NR (Noise Reduction): Available
Pan Angle Range: 360° (continuous panning)
Tilt Angle Range: 180° (ceiling-mounted position: 0° – 180°)
– When the horizontal direction of the camera is 0°:
  – When the tilt angle is between angles below, the dome cover can cause a line to appear in the video, as well as a decline in the video quality:
  0° – 0° (180° – 180°) (W)
  0° – 9° (171° – 179°) (T)
Moving Speed: Pan Max: 400°/sec., Tilt: Max: 400°/sec.

SEIVER

Video Compression Method: JPEG, H.264
Video Size: JPEG, H.264: 1920 x 1080, 960 x 540, 480 x 270
H.264: 720 x 576, 352 x 240, 192 x 108, 96 x 54, 48 x 24
Video Quality: JPEG, H.264: 10 levels
Frame Rate: H.264: 30 fps
– H.264: 1/2, 1/2.5, 1/5, 1/10, 1/30 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 of movement of the subject or other reasons.
– Maximum frame rate when used in the following combinations:
  - When streaming H.264 (1920 x 1080) and H.264 (1920 x 1080) simultaneously: 30 fps
  - When streaming H.264 (1920 x 1080) and H.264 (1080 x 1920) simultaneously: 30 fps
  - When streaming H.264 (1920 x 1080) and H.264 (1080 x 1920) simultaneously: 5 fps
  - When streaming H.264 (1080 x 1920) and H.264 (1280 x 720) simultaneously: 15 fps
  - When streaming H.264 (1080 x 1920) and H.264 (1280 x 720) simultaneously: 15 fps
  - When streaming H.264 (1280 x 720) and H.264 (1080 x 1920) simultaneously: 7.5 fps
  - When streaming H.264 (1280 x 720) and H.264 (720 x 1280) simultaneously: 30 fps
  - When streaming H.264 (720 x 1280) and H.264 (1280 x 720) simultaneously: 15 fps
  - When streaming H.264 (720 x 1280) and H.264 (640 x 360) simultaneously: 30 fps
  - When streaming H.264 (640 x 360) and H.264 (320 x 180) simultaneously: 30 fps

Simultaneous Client Access: 0.5 / 1.25 / 2.5 / 5 / 10 / 30 sec.
Bit Rate Control: Target Bit Rate: Base: 64/128/256/384/512/1024/2048/3072/4096/8192/12800/20480/38400/7680 kbps
Ad SR: Area-specific 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)
– IESECB (Signed), EAP-TLS, EAP-PEAP
– IPsec, TLS, SRTP, ESP, TLS, IPv4, IPv6, IPv4-over-IPSec
– (Canon proprietary)

Audio Compression Method: G.711 (16 kbps)
Audio Communication Method: Full-duplex (two-way)
– Echo cancelation function compliant
– RTP, Source Transfer Protocol by Canon

Audio File Playback: Available (Audio file can be played back when an event is triggered by the intelligent function or external device (API). – A third-party amplifier speaker is necessary
Privacy Mask: Number of registered: Max. 8 places, Number of mask colors: 1 (select from 9 colors)
Panorama: Available

View Restriction: Available

Reset: Number of registers: Max. 256 positions (Home Position)
Number of Reset Tour Route: Max. 5

Intelligent Function (Video):

Intelligent Function (Audio):
– Volume Detection, Volume 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)
On-Screen Display: Available
– German/English/Spanish/French/Italian/Polish/Russian/Turkish/Korean/Chinese (Simplified)/Japanese
– English/Simplified/Chinese

Daylight Saving Time: Available

OTHER

Network Terminal: LAN 1 10BASE-TX (Auto/Full-duplex/Half-duplex)
Audio Input Terminal (common for LINE-IN & MIC IN): BNC (3 M IN) in mini-jack connector (monaural)
LINE IN (connect to an amplifier microphone) or MIC IN (connect to a microphone &/or amplifier)
– Switch LINE IN/MIC IN in the setting page.

Audio Output Terminal (LINE-OUT): BNC (3 M IN) 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, ON/Off, Timer, Upload)

Frame Rate: Max. 1 fps (JPEG)
– Max. 3 fps (H.264)
– To insure reliability in the recording speed, it is recommended to use CLASS 5 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).

Operating Environment: Temperature: –10°C – +50°C (+14°F – +122°F)
Humidity: 5% – 85% (without condensation)

Installation Method: Ceiling mount
– Canon will not guarantee proper operation if the cameras are installed on surfaces where the angle is more than 15° from horizontal or on walls, because this will put a heavy load into sliding mechanical parts and may affect durability.

Power Supply: PoE: PoE power supply via LAN connector (IEEE802.3af Type compliant)
AC Adapter: PA-V1B (100 – 240 V AC) (sold separately)
External power source: 24 V AC/12 V DC

Power Consumption: PoE: Max. approx. 10.7 W
AC Adapter: PA-V1B: Max. approx. 11.5 W (100 – 240 V AC)
– Max. approx. 11.5 W (240 V AC)
– AC: Max. approx. 10.2 W

Class 0 power sourcing equipment (requests 15.4 W)

Dimensions: 16 x 199 x 199 mm (W x H x D) (9.0 in.)
– Camera only (excluding Ceiling Plate)
Weight: Approx. 1950 g (4.3 lb.)
Technical Specifications

International Standard
- EN55032 Class B, FCC part15 subpart B Class B, ICES-003 Class B, VCCI Class B,
- IEC/UL/EN 60950-1, EMC Class B, C/US EN55022 Class B, C/US EN55024, KNI3, IEC/UL/EN 60950-1, EN60130-4

APPLICATION
- Viewer
  - Camera Viewer
  - Mobile Camera Viewer
- Camera software
  - Camera Management Tool
  - Recorded Video Utility
- Language
  - German/English/Spanish/French/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

What’s in the box?
- VB-R13 Main Unit
- Before Using this Camera
- EAC-Supported Guide
- VB-R13 Main Unit
- Before Using this Camera
- EAC-Supported Guide
- Ceiling Plate
- Wrench
- Template
- Power Connector
- Installation Guide
- Warranty Card

Dimensions

Compatible Accessories
- SR640-VB
  - Recessed Mounting Kit
- PC640-VB
  - Pendant Mounting Kit
- SR640-P-VB
  - Plenum Recessed Mounting Kit
  - (Fire resistant)
- DU640-S-VB
  - Smoke Dome Unit

*Available in Euro 2-Pin & UK 3-Pin plug
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Versatile PTZ camera featuring a bright 30x zoom lens, 1/3” Full HD CMOS sensor and multiple built-in analytic functions.

Sales Start Date: August 2016

### Product Details:

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