VB-H651V

Capture detailed images in low-light and reduce surveillance costs with this wide-angled indoor vandal-resistant dome camera.

This Full HD indoor vandal resistant dome camera offers a wide angle of view, superb low-light performance and IK10 impact protection.

- 1/3” Full HD CMOS sensor delivers a superb low light performance
- 2.4x optical zoom lens with a wide 122.1° angle of view
- IK10 vandal proof protection
- Motion Adaptive Noise Reduction enhances low-light capabilities
- 8 built-in analytics functions provide intelligent and efficient alarm detection
- Remote PTRZ adjustment reduces setup time and installation costs
- ADSR bandwidth technology
- Support for multiple web browsers and mobile devices
- ONVIF® Profile S & G

Product Range
VB-H630D
VB-M620D
VB-M641V
VB-M640V
Technical Specifications

CAMERA

Image Sensor 1/3 type CMOS (primary color filter)
Number of Effective Pixels Approx. 2.1 million pixels
Scanning Method Progressive
Lens 2.4x optical zoom (4x digital zoom) lens (electric drive)
Focal Length 2.55 (W) – 6.12 mm (T)
F-number F1.2 (W) – F1.8 (T)
Viewing Angle For 16:9 aspect ratio: Horizontal 122.7° (W) – 50.1° (T)
Vertical 65.8° (W) – 28.2° (T)
For 4:3 aspect ratio Horizontal 89.2° (W) – 37.6° (T)
Vertical 65.8° (W) – 28.2° (T)
Day/Night Switch Auto/Auto Mode/Day/Night Mode
Min. Subject Illumination Day Mode (colour): 0.035 lux
Night Mode (monochrome): 0.002 lux
When using the Smoked Dome (sold separately)
Day Mode (colour): 0.07 lux
Night Mode (monochrome): 0.004 lux
(F1.2/1.5 sec. SSC off, 50IRE)
Focus Auto/One-shot AF/Manual/Fixed at infinity
Shooting Distance (from front of lens) Day & Night Modes: 0.3 m (12 in.) – infinity
Shutter Speed 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/100, 1/200, 1/400, 1/800, 1/1600, 1/3200 sec
Exposure Auto (Multi Exposure AEB)/Auto (Shutter-priority AE)/Auto (Aperture-priority AE)/Manual (Shutter Speed, Aperture, Gain)
White Balance Auto / Light Source / Manual
Light Source: Daylight / Fluorescent / Warm / Fluorescent / Mercury Lamp / Sodium Lamp / Halogen Lamp
Manual: One-shot / WB / Gain / Gain
Metering Mode Center-Weighted / Average / Spot
Exposure Compensation 9 levels
Smart Shade Control Auto / Manual / Disable / Auto: 3 levels, Manual: 7 levels
Haze Compensation Auto / Manual / Disable / Auto: 3 levels, Manual: 7 levels
AISC Limit 6 levels
Image Stabilizer 2 levels (digital)
Motion-Adaptive NR Available
Pan Angle Range 350° (±175°)
Tilt Angle Range 150° (±75°)
_rotation Angle Range 350° (±175°)
Moving Speed Pan: 20°/sec., Tilt: 20°/sec., Rotation: 40.0°/sec.

SERVER

Video Compression Method JPEG, H.264
Video Size JPEG, H.264: 1920 x 1080, 960 x 540, 480 x 270
1280 x 720, 640 x 360, 320 x 240
800 x 600, 1280 x 720, 640 x 480, 480 x 240
480 x 270, 320 x 180, 240 x 140
Video Quality JPEG, H.264: 16 levels
Frame Rate JPEG: 0.1 – 30 fps
H.264: 1/2, 1/3, 1/4, 1/5, 1/6, 1/10, 1/15, 1/30, 1/60, 1/100, 1/200, 1/400, 1/800, 1/1600
- Values represent standard performance from the camera.
- Frame rate may be reduced due to use of 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) (1920 x 1080) and H.264(2) (all sizes) simultaneously: 15 fps
H.264(1) (all sizes) and H.264(2) (1920 x 1080) simultaneously: 15 fps
H.264(1) (1280 x 960) and H.264(2) (1280 x 960) simultaneously: 15 fps
H.264(1) (1280 x 720) and H.264(2) (1280 x 960) simultaneously: 15 fps
NR Available

Log Notification ICR/HTTP/SMTP/RTP
Event Notification SMTP (e-mail)
Event Detection Intelligent Function (Video), Intelligent Function (Audio), Timer, Day/Night Switch

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)
- Requires third-party amplifier & speaker
Privacy Mask Registration: Max. 8 places, Mask colors: 1 (select from 9 colors)
Preset
Prevent: Max. 1
Intelligent Function (Video) Moving Object, Abandoned Object, Removed Object, Camera Tampering, Passing, and Intrusion Detection
Detection Settings: Max. 19
Non-detection Area Settings: Available
Intelligent Function (Audio) Volume Detection, Scream Detection
Event Trigger Type External Device Input, Intelligent Function (Video), Intelligent Function (Audio), Timer, Day/Night Switch

Image Upload FTP/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, 192 x 108, 128 x 72
640 x 480, 512 x 288, 384 x 216, 256 x 144, 192 x 108, 128 x 72
On-Screen Display Available
German / English / Spanish / French / Italian / Polish / Russian / Turkish / Korean / Chinese / Simplified / Japanese

Daytime Saving Time Available

INTERFACE

Network Terminal LAN x 1 (RJ45, 10Base-TX (auto/full-duplex/half-duplex))
Audio Input Terminal Common for LINE IN & MIC IN)
LINE IN (connect to a microphone or MIC IN (connect to a microphone or amplifier)
- Switch LINE IN/MIC IN in the setting page.
Audio Output Terminal (LINE OUT)
LINE OUT (connect to an amplifier speaker)

External Device I/O Terminal Input x 2, Output x 2

Memory Card microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card
Card Compatible
- Recorded Content: Log, Video (Event, Manual, ONVIF, Timer, Upload)
- Frame Rate: Max. 1 fps (JPEG)
- 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/Surface mount

Power Supply PoE: PoE power supply via LAN connector
IEEE802.3at Typel 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. 8.4 W*
AC Adapter: PA-V18: Max. approx. 9.9 W (100 V AC)
Max. approx. 11.5 W (240 V AC)
DC: Max. approx. 8.7 W
- Class 0 power sourcing equipment (requests 15.4 W)

Dimensions (Φ x H) 650 x 129 mm (Φ95.9 x 5.08 in.)
- Camera only (excluding Ceiling Plate)
Weight Approx. 890 g (1.97 lb.)
Impact Resistance IK02 (20 J)

International Standard ENS532 Class B, FCC part15 subpart B Class B, ICES-003 Class B, VCCI Class B, RCM AS/NZS ENS532 Class B, CNS13438 Class B, KN52 Class B, ENS0024, ENS5581
IEC/UL/EN60950-1, ENS030-4, IEC/UL/EN62262 IK02
**Technical Specifications**

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**What’s in the box?**

- VB-H651V Main Unit
- Before Using this Camera
- EAC-Supported Guide
- Template
- Ceiling Plate
- Installation Guide
- Fixing Screw(s)
- Power Connector
- Audio Interface Cable
- Wrench
- Safety Wire & Fixing Screw
- Warranty Card

**Dimensions (mm)**

**Compatible Accessories**

- SR640-S-VB  
  Recessed Mounting Kit
- SR640-P-VB  
  Plenum Recessed Mounting Kit  
  (Fire resistant)
- PC640-VB  
  Pendant Mounting Kit
- DU640-S-VB  
  Smoked Dome Unit
- PA-V17 / PA-V18  
  AC Power Supply  
  *Available in Euro 2-Pin & UK 3-Pin plug
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Sales Start Date: May 2016