

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.



Shown with PC640-VB



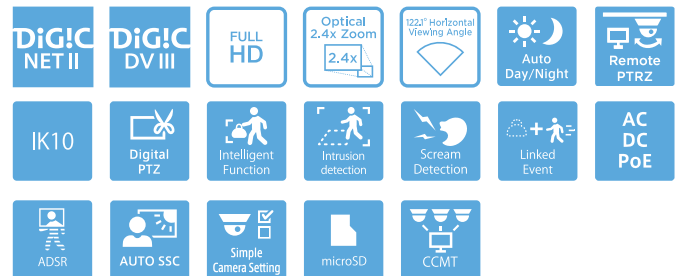
Shown with DU640-S-VB



- 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

VB-H651V

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 ratios: Horizontal: 122.1° (W) – 50.1° (T) Vertical: 65.8° (W) – 28.2° (T) For 4:3 aspect ratios: Horizontal: 89.2° (W) – 37.6° (T) Vertical: 65.8° (W) – 28.2° (T)
Day/Night Switch	Auto/Day Mode/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, 1/30 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, 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
Haze Compensation	Auto/Manual/Disable, Auto: 3 levels, Manual: 7 levels
AGC 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: 20.1°/sec. Tilt: 20.7°/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 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) (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 720) 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) - Requires third-party amplifier & speaker
Privacy Mask	Registration: Max. 8 places, Mask colors: 1 (select from 9 colors)
Preset	Registers: Max. 20 positions (+Home Position) Preset Tours: Max. 1
Intelligent Function (Video)	Moving Object, Abandoned Object, Removed Object, Camera Tampering, Passing, and Intrusion Detection Detection Settings: Max. 15 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 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
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	microSD Memory Card, microSDHC Memory Card, microSDXC 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/Surface mount
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. 8.4 W* AC Adapter PA-V18: Max. approx. 9.9 W (100 V AC) Max. approx. 9.8 W (240 V AC) DC: Max. approx. 8.7 W AC: Max. approx. 8.1 W * Class 0 power sourcing equipment (requests 15.4 W)
Dimensions	(Φ x H) Φ150 x 129 mm (Φ5.91 x 5.08 in.) - Camera only (excluding Ceiling Plate)
Weight	Approx. 890 g (1.97 lb.)
Impact Resistance	IK10 (20J)
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, IEC/UL/EN62262 IK10

Technical Specifications

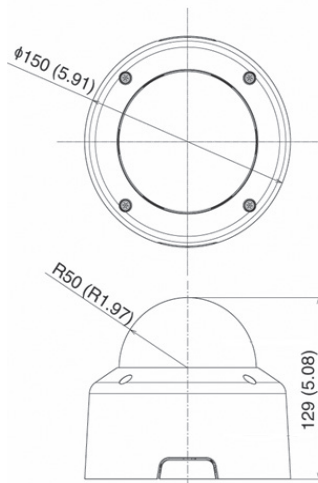
VB-H651V

APPLICATION	
Viewer	Camera Viewer - Supports Video Display Rotation 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

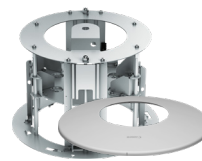
What's in the box?

- 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)



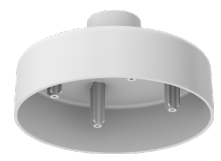
Compatible Accessories



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

Product Details:

Product Name	Mercury Code	EAN Code
VB-H651V	1385C001AC	4549292070620

Optional Accessories:

Product Name	Mercury Code	EAN Code
SR640-S-VB	0715C001AA	4549292043495
SR640-P-VB	0717C001AA	4549292043518
PC640-VB	0719C001AA	4549292043532
DU640-S-VB	0722C001AA	4549292043563
PA-V17(UK 3-pin plug)	2245B003AA	4960999480206
PA-V18(EU 2-pin plug)	8362B002AA	4960999986791

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-H651V	1385C001AC	EA	Each	1	248	248	257	0.9	1.9
		CT	Carton	2	277	518	284	1.8	
		EP	Euro Pallet	18				16.0	