



# VB-H610VE

## FULL HD VANDAL RESISTANT FIXED DOME IP SECURITY CAMERA

### Rugged Full HD IP Camera

The VB-H610VE Fixed Vandal-Resistant Full HD IP Security Camera performs both indoors or out. Housed in a clear polycarbonate dome mounted to an aluminum body, the camera's enclosure can absorb violent impacts and it has a dust and water-resistance rating of IP66 which protects against heavy water sprays from any angle. Inside the enclosure, the VB-H610VE lens is mounted in a damping mechanism to protect it against heavy blows. An optional heater allows the camera to be used in temperatures down to minus 22° F. The VB-H610VE also features a built-in Genuine Canon 111° wide-angle 3x optical zoom lens for clear, high-quality images, **DiG!C DV III** image processor, and the new Canon **DiG!C NET II** network video processor for full 1920 x 1080 HD up to 30 fps in both H.264 and M-JPEG. ONVIF (Open Network Video Interface Forum) Profile S conformance ensures compatibility with other ONVIF-compliant third-party products. A unique Remote Adjustment Function enables users to change the angle of view (including pan, tilt, rotation, zoom, and focus) of the camera from any Internet-connected PC, thereby eliminating the time and expense of on-site adjustments involving labor, transportation, and equipment. The VB-H610VE is also equipped with On-board Video Analytics including Moving Object Detection, Removed Object Detection, Abandoned Object Detection, Camera Tampering Detection, Volume Level Detection, and a new Passing (or "tripwire") Detection.



### Key Features

- ▶ Full HD CMOS Sensor
- ▶ Vandal Resistant Dome (with IP66 Rating)
- ▶ Genuine Canon 111° Wide Angle Lens
- ▶ Brilliant Low-Light Performance
- ▶ On-Board Video Analytics
- ▶ ONVIF Profile S Conformant
- ▶ **DiG!C DV III** image processor
- ▶ **DiG!C NET II** network video processor transmits H.264 and M-JPEG simultaneously at 1920 x 1080 up to 30 fps



- ▶ Canon's Unique Remote Adjustment Function enables users to change the angle of view of the camera after installation.

### Recommended For:

- ▶ Correctional Facilities
- ▶ Public Transportation Centers
- ▶ Financial Institutions
- ▶ Educational Institutions
- ▶ Higher Crime Areas

# VB-H610VE

# VB-H610VE Full HD Vandal Resistant Fixed Dome IP Security Camera

PRODUCT NAME: VB-H610VE ITEM CODE: 6813B001 UPC CODE: 013803157383

## SPECIFICATIONS

CAMERA	IMAGE SENSOR	1/3 type CMOS (primary color filter)		
	NUMBER OF EFFECTIVE PIXELS	Approx. 2.1 million pixels		
	SCANNING METHOD	Progressive		
	LENS	3x optical (4x digital) zoom lens (electric drive)		
	FOCAL LENGTH	2.8 (W) – 8.4mm (T)		
	F-NUMBER	F1.2 (W) – F2.0 (T)		
	VIEWING ANGLE	Horizontal: 111° (W) – 36.5° (T) Vertical: 60.1° (W) – 20.5° (T)		
	DAY/NIGHT SWITCH	Auto/Manual		
	MIN. SUBJECT ILLUMINATION	Day Mode (color)	0.3 lux (F1.2, shutter speed 1/30 sec., when Smart Shade Control is off, 50IRE) 0.02 lux (F1.2, shutter speed 1/2 sec., when Smart Shade Control is off, 50IRE) 0.008 lux (F1.2, shutter speed 1/2 sec., when Smart Shade Control is on, 50IRE)	
		Night Mode (monochrome)	0.015 lux (F1.2, shutter speed 1/30 sec., when Smart Shade Control is off, 50IRE) 0.001 lux (F1.2, shutter speed 1/2 sec., when Smart Shade Control is off, 50IRE) 0.0005 lux (F1.2, shutter speed 1/2 sec., when Smart Shade Control is on, 50IRE)	
	FOCUS	One-shot AF/Manual/Fixed at infinity		
	SHOOTING DISTANCE (FROM FRONT OF LENS)	Day Mode: 0.3m (12 in.) – infinity Night Mode: 1.0m (3.3 ft.) – infinity		
	SHUTTER SPEED	1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 sec.		
	EXPOSURE	Auto/Auto (Flickerless)/Auto (Shutter-priority AE)/ Manual (Shutter Speed, Aperture, Gain)		
	WHITE BALANCE	Auto/Light Source (Daylight Fluorescent/White Fluorescent/ Warm Fluorescent/ Mercury Lamp/Sodium Lamp/Halogen Lamp)/Lock (One-shot WB)/Manual		
	METERING MODE	Center-Weighted/Average/Spot		
	EXPOSURE COMPENSATION	9 levels		
	SMART SHADE CONTROL	7 levels (increases the brightness of shaded subjects in a video)		
	AGC LIMIT	5 levels		
	PAN ANGLE RANGE	350° (±175°)		
	TILT ANGLE RANGE	150° (±75°)		
	ROTATION ANGLE RANGE	350° (±175°)		
	MOVING SPEED	Pan: 19.2°/sec., Tilt: 14.2°/sec., Rotation: 43.7°/sec. – When the Camera Angle Setting Tool is used		
	VIDEO COMPRESSION METHOD	M-JPEG, H.264		
	VIDEO SIZE	M-JPEG: 1920 x 1080, 960 x 540, 480 x 270, 320 x 240 H.264: 1920 x 1080, 960 x 540, 480 x 270		
	VIDEO QUALITY	M-JPEG, H.264: 5 levels		
	FRAME RATE	M-JPEG: 0.1 – 30 fps H.264: 1/2/3/5/6/10/15/30 fps		
	MAX. FRAME RATE	1920 x 1080: 30 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			
CAMERA CONTROL	Administrator, Authorized user, Guest user (level of control varies depending on user) Max. 50 user names and passwords registered for authorized users.			
ACCESS CONTROL	User authority (user name and password), Host Access Restrictions (IPv4, IPv6)			
ENCRYPTED COMMUNICATIONS	SSL/TLS, IPsec (Auto Key Exchange/Manual)			
PROTOCOL	IPv4	TCP/IP, UDP, HTTP, FTP, SNMP (MIB2), SMTP (Client), DHCP (Client), DNS (Client), ARP, ICMP, POP3, NTP, SMTP authentication, WV-HTTP (Canon proprietary), ONVIF		
	IPv6	TCP/IP, UDP, HTTP, FTP, SMTP (Client), DHCPv6 (Client), DNS (Client), ICMPv6, POP3, NTP, SMTP authentication, WV-HTTP (Canon proprietary), ONVIF		
AUTOIP	Available			
AUDIO COMPRESSION METHOD	G.711 µ-law (64 kbps)			
AUDIO COMMUNICATION METHOD	Full-duplex (two-way) – Echo cancellation function compliant 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 separately-sold amplifier speaker is necessary			
PRIVACY MASK	Number of registration: Max. 8 places, Number of mask colors: 1 (select from 9 colors)			
PRESET	Max. 20 positions (Digital) (Preset Tour capable)			
INTELLIGENT FUNCTION	VIDEO	Detection Types: moving object detection, abandoned object detection, removed object detection, camera tampering detection, and passing detection		
	DETECTION SETTINGS	Max. 15		
	VOLUME	Volume Detection		
EVENT TRIGGER TYPE	External Device Input, Intelligent Function (Video), Intelligent Function (Volume), Timer			
IMAGE UPLOAD	FTP/HTTP/SMTP (e-mail) Temporary storage memory in camera: Max. approx. 5 MB, Frame Rate: Max. 10 fps			
EVENT NOTIFICATION	HTTP/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			
INTERFACE	NETWORK TERMINAL	LAN x 1 (RJ45, 100Base-TX (auto/full-duplex/half-duplex))		
	AUDIO TERMINALS	INPUT	1 Mini-Jack Connector (Mono), LINE IN or MIC IN	
		OUTPUT	1 Mini-Jack Connector (Mono), LINE OUT	

## SPECIFICATIONS (cont.)

INTERFACE	EXTERNAL DEVICE I/O TERMINAL	Input x 2, Output x 2
	MEMORY CARD	SD, SDHC, SDXC Memory Card Compatible. Frame Rate: Max. 1 fps
OPERATING ENVIRONMENT	TEMPERATURE	-10°C – +50°C (+14°F – +122°F)
	HUMIDITY	5% – 85% (without condensation)
POWER SUPPLY	PoE	PoE power supply via LAN connector (IEEE802.3af compliant)
	AC ADAPTER	PA-V17 (100 – 240 V AC) (sold separately)
POWER CONSUMPTION	EXTERNAL POWER SOURCE	24 VAC/12 V DC
	WITH PoE	Max. approx. 8.4 W
	WITH PA-V17 AC ADAPTER	Max. approx. 10.7 W
	WITH DC	Max. approx. 9.0 W
OTHER	WITH AC	Max. approx. 8.1 W
	DIMENSIONS (DIAMETER X HEIGHT)	7.09 x 5.79 in. (180 x 147 mm)
	WEIGHT	4.24 lbs (1920 g)

## OPTIONAL ACCESSORIES

ITEM CODE NO.	DESCRIPTION
5004B001	PS600-VB Junction Box Mounting Kit
5091B001	SR600-VB Recessed Mounting Kit
5092B001	HU600-VB Heater Unit
2245B001	PA-V17 AC Adapter

## OPTIONAL SOFTWARE

ITEM CODE NO.	DESCRIPTION
8222B001	RM-64 v2.0 Network Video Recording Software
8222B002	RM-25 v2.0 Network Video Recording Software
8222B003	RM-9 v2.0 Network Video Recording Software
8222B004	RM-Viewer v2.0 (1 License)
4973B001	RM-Lite-V Additional Viewer License

## ONVIF Conformant Product

The VB-H610VE is compatible with the ONVIF (Open Network Video Interface Forum) Profile S protocol, a standard communication protocol. It is now easier to integrate the VB-H610VE with other ONVIF compliant third party products. The VB-H610VE is also backwards compatible with earlier versions of the ONVIF protocol.



©2012 Canon U.S.A., Inc. All rights reserved. Not responsible for typographical errors. Specifications are subject to change without notice. Some of the images and effects are simulated. Canon and DIGIC are registered trademarks of Canon Inc. in the United States and may also be trademarks or registered trademarks in other countries. IMAGEANYWARE is a trademark of Canon. "ONVIF" and ONVIF are trademarks of ONVIF Inc. All other products and brand names may be registered trademarks, trademarks or service marks of their respective owners in the United States and/or other countries.



For more info:  
Call 1-800-OK-CANON (1-800-652-2666)  
pro.usa.canon.com