

# VB-H710F FULL HD FIXED IP SECURITY CAMERA

## Versatile Full HD Performance

Featuring a distinctive rectangular housing, the VB-H710F Full HD Fixed IP Security Camera is equipped with a built-in Genuine Canon wide-angle 3x optical zoom lens with an ultra-wide 112.6° angle of view. A built-in motorized focus and zoom function enables users to adjust those settings at any time from any Internet-connected PC, which is a major benefit for inaccessible and/or large-scale installations. Integrating an advanced 16:9 CMOS sensor, **DiGiC DV III** image processor, and the new Canon **DiGiC NET II** network video processor for full 1920 x 1080 HD up to 30 fps in both H.264 and M-JPEG, the VB-H710F also provides ONVIF (Open Network Video Interface Forum) Profile S conformance for compatibility with other ONVIF-compliant third-party devices. The VB-H710F 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. A Digital PTZ feature enables users to digitally "zoom" in and crop-out up to five portions of the image. The VB-H710F can then digitally encode and transmit just those cropped areas, which can be viewed in a pre-set tour, in essence providing this fixed camera with PTZ capabilities.



## Key Features

- ▶ Full HD CMOS Sensor
- ▶ Genuine Canon 112.6° Wide Angle Lens
- ▶ Brilliant Low-Light Performance
- ▶ On-Board Video Analytics
- ▶ ONVIF Profile S Conformant
- ▶ Canon's Unique Remote Adjustment Function (zoom and focus only)
- ▶ **DiGiC DV III** image processor



- ▶ **DiGiC NET II** network video processor transmits H.264 and M-JPEG simultaneously at 1920 x 1080 up to 30 fps

## Recommended For:

- ▶ Financial Institutions
- ▶ Industrial Plants and Utilities
- ▶ Military and Government Agencies
- ▶ Airports and Transportation Centers
- ▶ Casino/Gaming Industry
- ▶ Commercial Offices/Retail Locations

# VB-H710F

# VB-H710F Full HD Fixed IP Security Camera

PRODUCT NAME: VB-H710F ITEM CODE: 6815B001 UPC CODE: 013803157406

## 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: 112.6° (W) – 36.7° (T) Vertical: 60.8° (W) – 20.6° (T)
	DAY/NIGHT SWITCH	Auto/Manual
	MIN. SUBJECT ILLUMINATION	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)
		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
SERVER	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
	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
	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
		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)
	EXTERNAL POWER SOURCE	24 V AC/12 V DC

## SPECIFICATIONS (cont.)

POWER CONSUMPTION	WITH PoE	Max. approx. 6.9 W
	WITH PA-V17 AC ADAPTER	Max. approx. 8.64 W
	WITH DC	Max. approx. 7.0 W
	WITH AC	Max. approx. 6.5 W
OTHER	DIMENSIONS (H X W X D)	2.56 x 3.15 x 7.56 in. (65 x 80 x 192 mm)
	WEIGHT	1.48 lbs (670 g)

## OPTIONAL ACCESSORIES

ITEM CODE NO.	DESCRIPTION
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

## On-Board Video Analytics

The VB-H710F includes a variety of Video Analytics

- Moving Object Detection
- Removed Object Detection
- Abandoned Object Detection
- Volume Detection
- Camera Tampering Detection
- Passing (Tripwire) Detection



*Abandoned Object Detection can quickly detect suspicious objects and alert predesignated parties*

The detection area, sensitivity and duration can be finely tuned allowing for precise event detection by the camera, while advanced notification tools can notify predesignated parties, saving valuable response time.

The VB-H710F also includes a Privacy Mask Function which can be used to block selected areas of the camera's view. In sensitive locations where surveillance is required but particular areas can't be seen or recorded – such as door entry or ATM keypads, computer monitors or apartment windows – a Privacy Mask will hide that area while still allowing a full range of motion.

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