

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 | 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 |
| 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 |
| INTERFACE | 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 |
| | 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 |
| OPERATING ENVIRONMENT | MEMORY CARD | | SD, SDHC, SDXC Memory Card Compatible. Frame Rate: Max. 1 fps |
| | TEMPERATURE | | -10°C – +50°C (+14°F – +122°F) |
| | HUMIDITY | | 5% – 85% (without condensation) |
| | PoE | | PoE power supply via LAN connector (IEEE802.3af compliant) |
| POWER SUPPLY | 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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