

# VB-M720F

Keep every angle covered

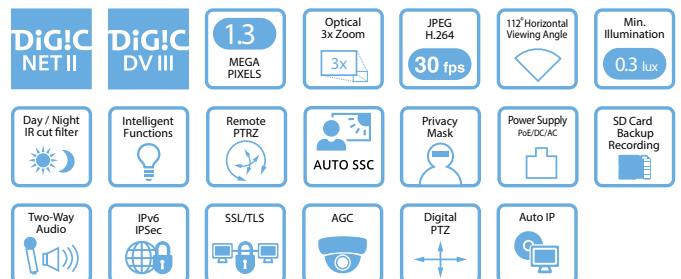
The VB-M720F 1.3MP fixed box camera with an ultra-wide 112° field of view and superior low-light performance. Flexible installation options for indoor and outdoor use.



- 1.3 MP fixed box IP security camera
- 3x optical zoom lens with ultra-wide 112° field of view
- Superior image quality using Canon DIGIC DV III processor
- Canon DIGIC NET II supports multiple motion JPEG and dual H.264 video streams
- Excellent low-light performance: colour at 0.3 lux and mono at 0.015 lux
- Auto Smart Shade Control (Auto-SSC) improves foreground objects in bright backlit scenes
- True Day / Night and two-way audio (supports playback of saved audio files from camera)
- Intelligent Functions and ONVIF v2.4 (Profile S) compliant

## Product Range

VB-H730F Full HD Fixed Box camera,  
**VB-M720F 1.3MP Fixed Box camera**,  
VB-S900F Full HD Mini Fixed Box camera,  
VB-S905F 1.3MP Mini Fixed Box camera



# Technical Specifications

# VB-M720F

## IMAGE SENSOR

**Type** 1/3 type CMOS (primary colour filter)  
**Number of Pixels** Approx. 1.3 million pixels  
**Scanning System** Progressive

## OPTICS

**Zoom Magnification and Control** 3x optical (4x digital zoom) zoom lens (electric drive)  
**Focal Length** 2.8 (W) - 8.4 mm (T)  
**Horizontal Field of View** 112.6° (W) - 36.7° (T)  
**Vertical Field of View** 60.8° (W) - 20.6° (T)  
**Lens F-Number** F1.2 (W) - F2 (T)  
**Minimum Subject Illumination**  
 Day Mode (colour):  
 0.3 lux (F1.2, shutter speed 1/30 sec., smart shade control off, 50IRE)  
 0.02 lux (F1.2, shutter speed 1/2 sec., smart shade control off, 50IRE)  
 0.008 lux (F1.2, shutter speed 1/2 sec., smart shade control on, 50IRE)  
 Digital Night Mode (monochrome):  
 0.015 lux (F1.2, shutter speed 1/30 sec., smart shade control off, 50IRE)  
 0.001 lux (F1.2, shutter speed 1/2 sec., smart shade control off, 50IRE)  
 0.0005 lux (F1.2, shutter speed 1/2 sec., smart shade control on, 50IRE)

**Focus Control** Auto / One-shot AF / Manual / Fixed at infinity  
**Focusing Region** Day Mode: 0.3 m - infinity  
 Night Mode: 1.0 m - 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.  
**White Balance** Auto / Light Source (Daylight Fluorescent / White Fluorescent / Warm Fluorescent / Mercury Lamp / Sodium Lamp / Halogen Lamp) / Manual (One-shot WB / R Gain / B Gain)  
**Imaging Modes** Day Mode, Night Mode (Auto / Manual)  
**Metering Modes** Center-Weighted / Average / Spot  
**Exposure** Auto / Auto (Flickerless) / Auto (Shutter-priority AE) / Manual (Shutter Speed, Gain)  
**Exposure Compensation** 9 levels  
**Shade Correction** Canon Smart Shade Control (SSC), Manual with 7 levels, Auto with 3 levels, Disable  
**AGC Limit** 5 levels

## SERVER UNIT

**Video Compression Method** H.264, JPEG  
**Video Output Size** JPEG, H.264: 1280 x 720, 640 x 360, 320 x 180  
 1280 x 960, 640 x 480, 320 x 240  
**Video Quality** JPEG, H.264: 5 levels of compression  
**Frame Rate** JPEG: 0.1 - 30 fps<sup>(1)</sup>  
 H.264: 1/2 / 3 / 5 / 6 / 10 / 15 / 30 fps<sup>(1)</sup>  
**Multi-Streaming** When streaming H.264(1) (1280 x 720) and H.264(2) (1280 x 720) simultaneously: 15 fps  
 When streaming H.264(1) (1280 x 960) and H.264(2) (1280 x 960) simultaneously: 15 fps  
**I-Frame Interval** 0.5 / 1 / 1.5 / 2 / 3 / 4 / 5 sec.  
**Simultaneous Distribution** JPEG: Max. 30 Clients + 1 Admin Client  
 H.264: Max. 10 Clients  
**Audio Communication** Sound Transfer Protocol by Canon  
**Audio Compression Method** G.711 μ-law (64 kbps)

## Supported Protocols

IPv4: TCP/IP, UDP, HTTP, FTP, SNMP (MIB2), SMTP (Client), DHCP (Client), DNS (Client), ARP, ICMP, POP3, NTP, SMTP authentication, RTSP, WV-HTTP (Canon proprietary), ONVIF  
 IPv6: TCP/IP, UDP, HTTP, FTP, SMTP (Client), DHCPv6 (Client), DNS (Client), ICMPv6, POP3, NTP, SMTP authentication, RTSP, WV-HTTP (Canon proprietary), ONVIF

## AutoIP

**Encrypted Communications** Available  
**IEEE 802.1X** EAP-TLS, EAP-TLS, EAP-TTLS, EAP-PEAP  
**Privacy Mask** Number of registration: Max. 8 places,  
 Number of mask colours: 1 (select from 9 colours)

## Camera Access Control

**Camera Access Levels** 3 user levels: Administrator / Authorised User / Guest User  
**Event Trigger Type** External Device Input, Timer, Intelligent Function (Video), Intelligent Function (Volume)  
**Event Notification** HTTP/SMTP (e-mail)  
**Custom Settings** Number of registers: 4  
 Items to Reg.: Exposure, Smart Shade Control, Focus, White Balance, Image Quality Adjustment, Day / Night

## EMBEDDED ANALYTICS

**Video Content Analytics** Moving Object Detection, Abandoned Object Detection, Removed Object Detection, Camera Tampering Detection and Passing Detection (Max of 15 detections per camera)  
**Audio** Volume Detection

## CONNECTORS

**Network Interface** LAN x 1 (RJ45, 100Base-TX (auto / full-duplex / half-duplex))  
**Audio Input (Mic In / Line In)** 3.5 mm mono mini-jack  
**Audio Output (Line Out)** 3.5 mm mono mini-jack  
**External Device I/O Terminals** 2 x Inputs / 2 x Outputs  
**Memory Card** SD Memory Card, SDHC Memory Card, SDXC Memory Card Compatible.

## MECHANISMS

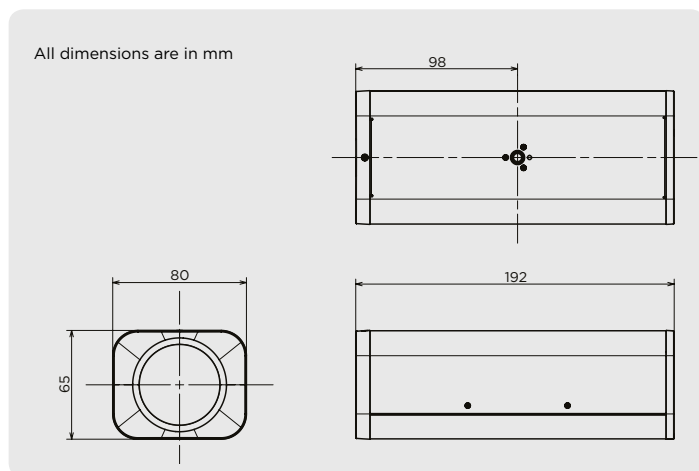
**Preset Positions** Max. 20 frame positions

## GENERAL

**Dimensions (W x H x D)** 80 mm x 65 mm x 192 mm  
**Weight** Approx. 670 g  
**Power Sources** PoE: PoE power supply via LAN cable (IEEE802.3af compliant)  
 AC Adapter: PA-V17 or PA-V18 (100 - 240 V AC) (sold separately)  
 External power source: 24 V AC/12 V DC  
**Power Consumption** When using PoE: Max. approx. 6.9 W  
 When using AC Adapter PA-V17: Max. approx. 8.5 W (100 V AC)  
 Max. approx. 8.7 W (240 V AC)  
 When using AC Adapter PA-V18: Max. approx. 7.5 W (100 V AC)  
 Max. approx. 7.8 W (240 V AC)  
 When using DC: Max. approx. 7.0 W  
 When using AC: Max. approx. 6.5 W  
**Operating Environment** Temperature: -10°C to +50°C, Humidity: 5% - 85% (without condensation)

<sup>(1)</sup> - Values represent streaming performance from the camera.  
 - The frame rate may be reduced due to Viewer PC'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.

## Dimensions



## Connectivity

