

# VB-S900F



## The smart and versatile Full HD Mini Fixed Box security camera.

A Full HD network Mini Fixed Box security camera with new ultra-compact lens technology. Its compact design makes it ideal for a range of discrete indoor commercial environments



- Outstandingly compact Mini Fixed Box design
- Full HD at 30fps for clear, detailed images
- CMOS sensor delivers high performance in low light
- Wide angle F/1.6 Canon lens offers a 96° Angle of View
- Multi-streaming of MJPEG and H.264 video in Full HD or lower resolutions
- Direct recording / playback from MicroSD card (64 GB)
- Comprehensive and intelligent in-built analytics
- Auto Smart Shade Control applies the optimum exposure for every environment
- Ideal in a wide range of indoor commercial environments

### Product Range:

VB-H730F  
VB-M720F  
**VB-S900F**  
VB-S905F



# Technical Specifications

# VB-S900F

<b>CAMERA</b>	
<b>Image Sensor</b>	1/3 type CMOS (primary colour filter)
<b>Number of Effective Pixels</b>	Approx. 2.1 million pixels
<b>Scanning Method</b>	Progressive
<b>Lens</b>	Fixed focal length lens (4x digital zoom)
<b>Focal Length</b>	2.7 mm
<b>F-number</b>	F1.6
<b>Viewing Angle</b>	For 16:9 aspect ratios: Horizontal: 96.0° Vertical: 60.0° For 4:3 aspect ratios Horizontal: 77.0° Vertical: 60.5°
<b>Day / Night Switch</b>	Auto / Day Mode / Night Mode
<b>Min. Subject Illumination</b>	Day Mode (colour): 0.4 lux (F1.6, shutter speed 1/30 sec., SSC off, 50IRE) Night Mode (monochrome): 0.2 lux (F1.6, shutter speed 1/30 sec., SSC off, 50IRE)
<b>Shooting Distance</b>	0.5 m (1.6 ft.) - infinity
<b>Shutter Speed</b>	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, 1/10000, 1/16000 sec.
<b>Exposure</b>	Auto / Auto (Flickerless) / Auto (Flickerless2) / Auto (Shutter-priority AE) / Manual (Shutter Speed, Gain)
<b>White Balance</b>	Auto / Light Source (Daylight Fluorescent / White Fluorescent / Warm Fluorescent / Mercury Lamp / Sodium Lamp / Halogen Lamp) / Manual (One-shot WB / R Gain / B Gain)
<b>Metering Mode</b>	Center-Weighted / Average / Spot
<b>Exposure Compensation</b>	9 levels
<b>Smart Shade Control</b>	Auto / Manual / Disable Auto: 3 levels Manual: 7 levels
<b>Haze Compensation</b>	Auto / Manual / Disable Auto: 3 levels Manual: 7 levels
<b>AGC Limit</b>	5 levels
<b>SERVER</b>	
<b>Video Compression Method</b>	JPEG, H.264
<b>Video Size</b>	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
<b>Video Quality</b>	JPEG, H.264: 5 levels
<b>Frame Rate</b>	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 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.
<b>Max. Frame Rate</b>	When streaming JPEG, H.264 (1920 x 1080): 30 fps When used in the following combinations: When streaming H.264(1) (1920 x 1080) and H.264(2) (all sizes) simultaneously: 15 fps When streaming H.264(1) (all sizes) and H.264(2) (1920 x 1080) simultaneously: 15 fps When streaming H.264(1) (1280 x 960) and H.264(2) (1280 x 960) simultaneously: 15 fps When streaming H.264(1) (1280 x 720) and H.264(2) (1280 x 720) simultaneously: 15 fps
<b>I-Frame Interval</b>	0.5/1/1.5/2/3/4/5 sec.
<b>Simultaneous Client Access</b>	Max. 30 Clients + 1 Admin Client - H.264: Max. 10 Clients
<b>Camera Control</b>	Administrator, Authorized user, Guest user (level of control varies depending on user) Max. 50 user names and passwords registered for authorized users.
<b>Access Control</b>	User authority (user name and password), Host Access Restrictions (IPv4, IPv6)
<b>Encrypted Communications</b>	SSL / TLS, IPsec (Auto Key Exchange / Manual)
<b>IEEE 802.1X</b>	EAP-MD5, EAP-TLS, EAP-TTLS, EAP-PEAP
<b>Protocol</b>	IPv4: TCP / IP, UDP, HTTP, FTP, SNMPv1 / v2c / v3 (MIB2), SMTP (Client), DHCP (Client), DNS (Client), mDNS, ARP, ICMP, POP3, NTP, SMTP authentication, RTSP, WV-HTTP (Canon proprietary), ONVIF IPv6: TCP/IP, UDP, HTTP, FTP, SMTP (Client), DHCPv6 (Client), DNS (Client), mDNS, ICMPv6, POP3, NTP, SMTP authentication, RTSP, WV-HTTP (Canon proprietary), ONVIF

<b>AutoIP</b>	Available
<b>Audio Compression Method</b>	G.711 µ-law (64 kbps)
<b>Audio Communication Method</b>	Sound Transfer Protocol by Canon
<b>Privacy Mask</b>	Number of registration: Max. 8 places, Number of mask colours: 1 (select from 9 colours)
<b>Preset</b>	Max. 20 positions
<b>Intelligent Function</b>	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
<b>Event Trigger Type</b>	External Device Input, Timer, Intelligent Function (Video), Intelligent Function (Volume)
<b>Image Upload</b>	FTP / HTTP / SMTP (e-mail) Temporary storage memory in camera: Max. approx. 5 MB Frame Rate: Max. 10 fps (JPEG) Max. 30 fps (H.264)
<b>Event Notification</b>	HTTP / SMTP (e-mail)
<b>Camera Angle Setting</b>	Available
<b>Image Cropping Function</b>	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
<b>On-Screen Display</b>	Available
<b>Daylight Saving Time</b>	Available
<b>Custom Settings</b>	Number of registers: 4 Items to Reg.: Exposure, Smart Shade Control, Haze Compensation, White Balance, Image Quality Adjustment, Day / Night
<b>APPLICATION</b>	
<b>Viewer</b>	Camera-side: Admin Viewer VB Viewer Client-side: RM-Lite Viewer
<b>Admin Tools</b>	Privacy Mask Setting Tool Preset Setting Tool Intelligent Function Setting Tool Log Viewer Recorded Video Utility Digital Zoom Setting Tool* * Setting Page Function
<b>Included Software</b>	Camera Management Tool RM-Lite Proxy Authentication Admin Tools/Admin Viewer
<b>Language</b>	German / English / Spanish / French / Italian / Russian / Turkish / Japanese
<b>INTERFACE</b>	
<b>Network Terminal</b>	LAN x 1 (RJ45, 100Base-TX (auto / full-duplex / half-duplex))
<b>Audio Input Terminal (common for LINE IN &amp; MIC IN)</b>	Φ3.5 mm (Φ0.14 in.) mini-jack connector (monaural) Switch LINE IN / MIC IN in the setting page. LINE IN x 1 (connect to an amplifier microphone) or MIC IN x 1 (connect to a microphone w/o amplifier)
<b>External Device I/O Terminal</b>	Input x 1, Output x 1
<b>Memory Card</b>	microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card Compatible. Frame Rate: Max. 1 fps (JPEG) Max. 30 fps (H.264)
<b>OTHER</b>	
<b>Operating Environment</b>	Temperature: -10°C - +50°C (+14°F - +122°F) Humidity: 5% - 85% (without condensation)
<b>Power Supply</b>	PoE: PoE power supply via LAN cable (IEEE802.3af compliant)
<b>Power Consumption</b>	Max. 4.3 W - Class 2 power sourcing equipment (requests 7.0 W)
<b>Dimensions</b>	(H x W x D) 54 mm x 32 mm x 114 mm (2.13 in x 1.26 in x 4.49 in.) - excluding projections
<b>Weight</b>	Approx. 180 g (6.4 oz.)

All data is based on Canon standard testing methods except where indicated. Subject to change without notice.

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