Canon

Network Camera

Specifications

Camera

Item \ Model Name			VB-H47	VB-M46	VB-S32VE	VB-S32D	VB-S820D	VB-S920F
Image Sensor			1/2.8 type CMOS					
Number of Effective Pixels			Approx. 2.0 million pixels	Approx. 1.3 million pixels	Approx. 2.1 million pixels			
Scanning Method			Progressive					
Lens			20x optical zoom (16x digital zoom) lens with auto focus		3.5x optical zoom (4x digital zoom) lens with auto focus		Fixed focal length lens (4x digital zoom)	
Focal Length *1			4.7 (W) – 94 mm (T)		2.25 (W) – 7.88 mm (T)		2.7 mm	
F-number *1			F1.6 (W) – F3.5 (T)		F1.4 (W) – F2.6 (T)		F1.6	
Angle of View *1	For 16:9 aspect ratios	Horizontal	62.4° (W) – 3.3° (T)		78.5° (W) – 20.9° (T)	79.0° (W) – 20.9° (T)	98.2°	99.2°
		Vertical	36.3° (W) – 1.9° (T)		40.8° (W) – 11.7° (T)	41.0° (W) – 11.7° (T)	62.0°	62.7°
	For 4:3 aspect ratios	Horizontal	47.9° (W) – 2.5° (T)		55.8° (W) – 15.6° (T)	56.1° (W) – 15.7° (T)	79.0°	79.9°
		Vertical	36.3° (W) – 1.9° (T)		40.8° (W) – 11.7° (T)	41.0° (W) – 11.7° (T)	62.0°	62.7°
Day/Night Switch			Auto/Day Mode/Night Mode					
Min. Subject Illumination	Day Mode (color)		0.02 lux (F1.6, shutter speed 1/30 sec., 50IRE)		0.15 lux (F1.4, shutter speed 1/30 sec., 50IRE)		0.02 lux (F1.6, shutter speed 1/30 sec., 50IRE)	
	When using the indoor dome housing (Smoked) (sold separately)		0.04 lux (F1.6, shutter speed 1/30 sec., 50IRE)		-			
	Night Mode (monochrome)		0.003 lux (F1.6, shutter speed 1/30 sec., 50IRE)		0.10 lux (F1.4, shutter speed 1/30 sec., 50IRE)		0.015 lux (F1.6, shutter speed 1/30 sec., 50IRE)	
	When using the indoor dome housing (Smoked) (sold separately)		0.006 lux (F1.6, shutter speed 1/30 sec., 50IRE)		-			
Focus			Auto/One-shot AF/Manual/Fixed at infinity				-	
AF Response			Available				-	
Shooting Distance (from front of lens) *1	Day Mode		0.3 m (12 in.) – infinity (W), 1.0 m (3.3 ft.) – infinity (T)		0.3 m (12 in.) – infinity		0.5 m (1.6 ft.) – infinity	
	When [Enable] is selected for [Dome]		2.0 m (6.6 ft.) – infinity		-			
	Night Mode		1.0 m (3.3 ft.) – infinity (W), 1.5 m (4.9 ft.) – infinity (T)		0.3 m (12 in.) – infinity		0.5 m (1.6 ft.) – infinity	
	When [Enable] is selected for [Dome]		1.0 m (3.3 ft.) – infinity (W), 2.2 m (7.2 ft.) – infinity (T)		-			
Shutter Speed			VB-H47/VB-M46/VB-S820D/VB-S920F 1/1, 1/2, 1/4, 1/8, 1/13, 1/15, 1/25, 1/30, 1/50, 1/60, 1/100, 1/120, 1/250, 1/360, 1/500, 1/720, 1/1000, 1/1400, 1/2000, 1/3000, 1/4000, 1/6000, 1/8000, 1/10000, 1/16000 sec. VB-S32VE/VB-S32D 1/25, 1/30, 1/45, 1/50, 1/60, 1/100, 1/120, 1/250, 1/360, 1/500, 1/720, 1/1000, 1/1400, 1/2000, 1/3000, 1/4000, 1/6000, 1/8000 sec.					
Exposure			Auto/Auto (Flickerless)/Auto (Shutter-priority AE)/ Auto (Aperture-priority AE)/Manual		Auto/Auto (Flickerless)/Auto (Flickerless2)/Auto (Shutter-priority AE)/Manual			
White Balance			Auto/Manual					
Metering Mode			Center-Weighted/Average/Spot/Specify Area					
Exposure Compensation			13 levels					
WDR			Available					
Smart Shade Control			Available					

Item \ Model Name	VB-H47	VB-M46	VB-S32VE	VB-S32D	VB-S820D	VB-S920F
Haze Compensation	Available					
AGC Limit	Available					
Image Stabilizer	Available – Except when the maximum frame rate is set to 60 fps or 50 fps		-			
Motion-Adaptive NR (Noise Reduction)	Available					
Pan Angle Range	340° (±170°)		350° (±175°)			-
Tilt Angle Range *2	100° (ceiling-mounted position: -90° – +10°)		90° (ceiling-mounted position: -90° – 0°)			-
Rotation Angle Range	-				180° (±90°)	-
Moving Speed — Pan	Max. 150°/sec.		Max. 120°/sec.		-	
Moving Speed — Tilt	Max. 150°/sec.		Max. 120°/sec.		-	
Built-in microphone	-		Omni-directional electret condenser microphone Sensitivity: -40 dB (0 dB = 1 V/Pa) S/N Ratio: 62 dB or greater Frequency Response: 50 Hz – 16 kHz – Specifications of the built-in microphone	-		
Low-frequency cutoff for audio input	-		Available	-		

*1 (W): maximum wide angle, (T): maximum telephoto
*2 When the horizontal direction of the camera is 0°

Server

Item \ Model Name	VB-H47	VB-M46	VB-S32VE	VB-S32D	VB-S820D	VB-S920F
Video Compression Method	JPEG, H.264, H.265					

Video Size	VB-H47/VB-S32VE/VB-S32D/VB-S820D/VB-S920F
	JPEG, H.264, H.265: 1920 x 1080, 1280 x 720, 960 x 540, 640 x 360, 480 x 270, 320 x 180
	                            1280 x 960, 640 x 480, 320 x 240
	
	VB-M46
	JPEG, H.264, H.265: 1280 x 720, 960 x 540, 640 x 360, 480 x 270, 320 x 180
	                            1280 x 960, 640 x 480, 320 x 240					

Video Quality	JPEG, H.264, H.265: 10 levels					
Frame Rate *1	VB-H47/VB-M46/VB-S820D/VB-S920F System frequency 60 Hz: 1, 5, 7.5, 10, 15, 30, 60 fps System frequency 50 Hz: 1, 2.5, 5, 6.25, 10, 12.5, 25, 50 fps – Values which can be set vary depending on the WDR settings or the Intelligent Function settings. VB-S32VE/VB-S32D System frequency 60 Hz: 1, 5, 10, 15, 30 fps System frequency 50 Hz: 1, 5, 6.25, 12.5, 25 fps					
Simultaneous Client Access	Max. 30 Clients + 1 Admin Client H.264: Max. 10 Clients H.265: Max. 10 Clients					
Bit Rate Control	CBR (Constant Bit Rate), VBR (Variable Bit Rate), MBR (Maximum Bit Rate)					
ADSR *2	Available					

Model Name Item	VB-H47	VB-M46	VB-S32VE	VB-S32D	VB-S820D	VB-S920F
Security	Camera Control: Administrator, Authorized user, Guest user (level of control varies depending on user) Access Control: User authority (user name and password), Host Access Restrictions (IPv4, IPv6) IEEE802.1X: EAP-TLS, EAP-TTLS, EAP-PEAP Encrypted Communications: SSL/TLS					
Protocol	IPv4, IPv6, TCP/IP, UDP, HTTP, SNMPv1/v2c/v3 (MIB2), DHCP, DNS, AutoIP, mDNS, ARP, ICMP, POP3, NTP, SMTP, RTP/RTCP, RTSP, SSL/TLS, ONVIF, WV-HTTP (Canon proprietary)					
ONVIF Profile	Profile-S, Profile-G, Profile-T					
Audio Compression Method	G.711 μ-law (64 kbps), AAC (16/48 KHz, 16/32/64/96/128 Kbps)					
Audio Communication Method	Full-duplex (two-way)/half-duplex RTP, Sound Transfer Protocol by Canon			Audio Reception Only		
Audio File Playback	Available			-		
Privacy Mask	Available					
Panorama	Available				-	
View Restriction	Available				-	
Preset	Number of registers	Max. 64 positions (+Home Position)		Max. 64 positions (+Home Position)		Max. 20 positions (+Home Position)
	Number of Preset Tour Route	Max. 5		-		Max. 1
Intelligent Function	Moving Object Detection, Abandoned Object Detection, Removed Object Detection, Camera Tampering Detection, Passing Detection, Intrusion Detection, Volume Detection, Face Detection					
Event Trigger Type	External Device Input, Intelligent Function, Timer, Day/Night Mode Switching Number of Linked Events: 2 Linked Event Conditions: OR, AND (whether or not there is a sequence to events)					
Image Upload	FTP/FTPS/HTTP/HTTPS/SMTP/SMTPS (e-mail)					
Event Notification	HTTP/HTTPS/SMTP/SMTPS (e-mail)					
Log Notification	SMTP/SMTPS (e-mail)					
Enhanced Digital Zoom	Available			-		
On-Screen Display	Available					
Language	Settings Page, Camera Viewer, Mobile Camera Viewer: German/English/Spanish/French/Italian/Russian/Thai/Korean/Chinese (Simplified)/Japanese Recorded Video Utility, Camera Management Tool: German/English/Spanish/French/Italian/Polish/Russian/Turkish/Thai/Korean/Chinese (Simplified)/Japanese					

*1   Values represent streaming performance from the camera. The frame rate may be reduced due to Viewer computer'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.
*2   Area-specific Data Size Reduction

Interface

Model Name Item	VB-H47	VB-M46	VB-S32VE	VB-S32D	VB-S820D	VB-S920F
Network Terminal	LAN x 1 (RJ45, 100Base-TX (auto))					
Audio Input Terminal (common for LINE IN & MIC IN)	φ3.5 mm (φ0.14 in.) mini-jack connector (monaural) LINE IN or MIC IN		-	φ3.5 mm (φ0.14 in.) mini-jack connector (monaural) LINE IN or MIC IN		
Audio Output Terminal (LINE OUT)	φ3.5 mm (φ0.14 in.) mini-jack connector (monaural) LINE OUT			-		
External Device I/O Terminal	Input x 2, Output x 2		Input x 1, Output x 1			
Memory Card *1	SD Memory Card, SDHC Memory Card, SDXC Memory Card Supported.		microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card Supported.			

*1   Class 10 recommended.

Other

Item		VB-H47	VB-M46	VB-S32VE	VB-S32D	VB-S820D	VB-S920F
Operating Environment	Temperature	DC, PoE: -10°C – +50°C (+14°F – +122°F)		Operating Temperature Range: PoE: -25°C – +50°C (-13°F – +122°F) Start-up Temperature Range: PoE: -10°C – +50°C (+14°F – +122°F)	PoE: -10°C – +45°C (+14°F – +113°F)		
	Humidity	5% – 85% (without condensation)					
Storage Environment	Temperature	-30°C – +60°C (-22°F – +140°F)					
	Humidity	5% – 90% (without condensation)					
Power Supply	PoE	PoE power supply via LAN connector (IEEE802.3at Type1 compliant)					
	AC Adapter	PA-V18 (100 – 240 V AC) (sold separately)		-			
	External power source	12 V DC					
Power Consumption	PoE	Max. approx. 9.1 W *1		Max. approx. 6.1 W *1	Max. approx. 6.7 W *1	Max. approx. 4.0 W *2	Max. approx. 3.8 W *2
	AC Adapter PA-V18	Max. approx. 9.2 W (100 V AC) Max. approx. 9.7 W (240 V AC)		-			
	DC	Max. approx. 7.9 W		-			
Dimensions		(φ x H) φ132 x 155 mm (φ5.20 x 6.10 in.) – Camera only (excluding Ceiling Plate)		(φ x H) φ132 x 65 mm (φ5.20 x 2.56 in.) – Camera only	(φ x H) φ120 x 54 mm (φ4.72 x 2.13 in.) – excluding projections		(H x W x D) 54 x 32 x 114 mm (2.13 x 1.26 x 4.49 in.) – excluding projections
Weight		Approx. 1100 g (2.43 lb.)		Approx. 660 g (1.46 lb.)	Approx. 270 g (9.6 oz.)	Approx. 240 g (8.5 oz.)	Approx. 200 g (7.1 oz.)
Impact Resistance		-		IK10 (20J)	-		
Dust-resistant/Waterproof Specification		-		IP66	-		

*1 Class 0 power sourcing equipment (requests 15.4 W)
*2 Class 2 power sourcing equipment (requests 7.0 W)

The cameras described in this manual may include models not available in your country and/or region.

ONVIF® is a trademark of ONVIF, Inc.
Brands or product names in this guide are trademarks or registered trademarks of their respective companies.