# VB-S30D

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# Comprehensively protect your environment with a Canon PTZ minidome network camera.

The easy-to-install Full HD PTZ Minidome network security camera with new ultra-compact zoom lens technology. Ideal for indoor security and monitoring in businesses and venues.







- Discrete ultra-compact PTZ Minidome design
- Full HD at 30fps for detailed images
- CMOS sensor delivers high performance in low light
- 3.5x optical zoom (4x digital) with 77.7° wide Angle of View
- Pan, Tilt, Zoom (PTZ) capability to programmed preset positions
- Multi-streaming of MJPEG and H.264 video in Full HD or lower resolutions
- Direct recording / playback from MicroSD card (64GB)
- · Comprehensive and intelligent in-built analytics
- Auto Smart Shade Control applies the ideal exposure for every environment
- Compact size: just 120mm in diameter and 54mm in height

### **Product Range**:

VB-R11 VB-H43 VB-M42 **VB-S30D** 

VB-S31D



























## **Technical Specifications**

# VB-S30D

CAMERA	
Image Sensor	1/4.85 type CMOS (primary Colour filter)
Number of Effective Pixels	Approx. 2.1 million pixels
Scanning Method	Progressive
Lens	3.5x optical (4x digital zoom) zoom lens with auto focus
Focal Length	2.25 (W) - 7.88 mm (T)
	(W): maximum wide angle, (T): maximum telephoto
F-number	F1.4 (W) - F2.6 (T)
Viewing Angle	For 16:9 aspect ratios: Horizontal: 77.7° (W) – 20.7° (T) Vertical: 40.4° (W) – 11.6° (T) For 4:3 aspect ratios: Horizontal: 55.3° (W) – 15.5° (T)
Barrie (Allanta Garrier)	Vertical: 40.4° (W) - 11.6° (T)
Day / Night Switch	Auto / Day Mode / Night Mode
Min. Subject Illumination	Day Mode (colour): 0.95 lux (F.1.4, shutter speed 1/30 sec., SSC off, 50IRE) 0.07 lux (F1.4, shutter speed 1/2 sec., SSC off, 50IRE) 0.025 lux (F1.4, shutter speed 1/2 sec., SSC on[7], 50IRE)
	Night Mode (monochrome): 0.5 lux (F1.4, shutter speed 1/30 sec., SSC off, 50IRE) 0.04 lux (F1.4, shutter speed 1/2 sec., SSC off, 50IRE) 0.015 lux (F1.4, shutter speed 1/2 sec., SSC on[7], 50IRE)
Focus	Auto / One-shot AF / Manual / Fixed at infinity
Shooting Distance	0.3 m (12 in.) - 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, 1/10000, 1/16000 sec.
Exposure	Auto / Auto (Flickerless) / Auto (Flickerless2) / Auto (Shutter- priority AE) / Manual (Shutter Speed, Gain)
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)
Metering Mode	Center-Weighted / Average / Spot
Exposure Compensation	9 levels
Smart Shade Control	Auto / Manual / Disable Auto: 3 levels Manual: 7 levels
Haze Compensation	Auto / Manual / Disable Auto: 3 levels Manual: 7 levels
AGC Limit	5 levels
Pan Angle Range	350° (±175°)
Tilt Angle Range	90° (ceiling-mounted position: -90° – 0°) - When the horizontal direction of the camera is 0°
Moving Speed	Pan: Max. 120°/sec., Tilt: Max. 120°/sec.
SERVER	
Video Compression Method	JPEG, H.264
Video Size	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
Video Quality	JPEG, H.264: 5 levels
Frame Rate	JPEG: 0.1 – 30 fps H.264: 1/2/36 fps - Values represent streaming performance from the camera Values represent streaming performance from the camera at the same time, network loads, video quality setting, type or movement of the subject or other reasons.
Max. Frame Rate	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 90) and H.264(2) (1280 x 90) simultaneously: 15 fps When streaming H.264(1) (1280 x 70) and H.264(2) (1280 x 70) simultaneously: 15 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)
	SSL / TLS, IPsec (Auto Key Exchange / Manual)
Encrypted Communications	33E / TE3, IF sec (Auto Key Exchange / Handar)

Audio Communication Method Privacy Mask (select from 9 colours) View Restriction Available Preset Max. 64 positions Video: Detection Types: moving object detection, abandoned object detection, removed object detection, camera tampering detection Detection Settings: Max. 15 Volume: Volume Detection Settings: Max. 15 Volume: Event Trigger Type External Device Input, Timer, Intelligent Function (Video), Intelligent Function (Volume) External Device Input, Timer, Intelligent Function (Video), Intelligent Function (Volume) Image Upload FTP / HTTP / SMTP (e-mail) Temporary storage memory in camera: Max. approx. 5 MB Frame Res: Max. 10 Fg. (JPEG) Max. 30 fps (H.264)  Event Notification HTTP / SMTP (e-mail) Temporary storage memory in camera: Max. approx. 5 MB Frame Res: Max. 10 fps (JPEG) Max. 30 fps (H.264)  Event Notification Available Daylight Saving Time Available Available Custom Settings Number of registers: 4 Items to Reg. Pan / Titt / Zoom. Exposure, Smart Shade Control Health (State Control Health (Health (State Control Health (Health (State Control Health (Health (Health (Health (State Control Health (Health (Health (Health	AutoIP	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  Available
Method   Number of ragistration: Max. 8 places, Number of mask colours (select from 9 colours)	Audio Compression Method	G.711 μ-law (64 kbps)
(select from 9 colours)  View Restriction  Available  Preset  Max. 64 positions  Intelligent Function  Video: Detection, removed object detection, abandoned object detection, removed object detection, camera tampering detection Detection Settings: Max. 15 Volume: Volume Detection Detection Personal detection Detection Settings: Max. 15 Volume: Volume Detection  Event Trigger Type  External Device Input, Timer, Intelligent Function (Video), Intelligent Function (Volume)  Image Upload  FTD / HTTP / SMTP (e-mail) Temporary storage memory in camera: Max. approx. 5 MB Frame Rate: Max. 10 fps (JPEG) Max. 30 fps (H.264)  Event Notification  HTTP / SMTP (e-mail) On-Screen Display  Available  Custom Settlings  Number of registers: 4 Items to Reg. Pan / Tilt / Zoom, Exposure, Smart Shade Contrelaze Compensation, Focus, White Balance, Image Quality Adjustment, Day / Night  APPLICATION  Viewer  Camera-side: Admin Viewer VB Viewer Client-side: RM-Lite Viewer  Admin Tools  Privacy Mask Setting Tool Panorama Creation Tool Panorama Creation Tool Verset Setting Tool Log Viewer Recorded Video Utility  Included Software  Camera Management Tool RN-Lite Proxy Authentication Admin Tools / Admin Viewer Recorded Video Utility  Includer Setting Tool Log Viewer Recorded Video Utility Includer Setting Tool Log Viewer Recorded Video Utility  Includer Setting Tool Log Viewer Recorded Video Utility  Includer Setting Tool Recorded Video Utility  Includer Setting Tool Recorded Video Utility  Includer Setting Tool Recorded Video Utility  In		Sound Transfer Protocol by Canon
Preset	Privacy Mask	Number of registration: Max. 8 places, Number of mask colours: 1 (select from 9 colours)
Intelligent Function  Video: Detection Types: moving object detection, abandoned object detection, removed object detection, camera tampering detection, and passing detection. Settings: Max. Is Volume: Volume Detection  Event Trigger Type  External Device Input, Timer, Intelligent Function (Video), Intelligent Function (Volume) Image Upload  FTP / HTTP / SMTP (e-mail) Temporary storage memory in camera: Max. approx. 5 MB Frame Rate: Max. IO fps (JPEG) Max. 30 fps (H.264)  Event Notification  On-Screen Display  Available  Available  Available  Custom Settings  Number of registers: 4 Items to Reg.: Pan / Till / Zoom, Exposure, Smart Shade Contre Haze Compensation, Focus, White Balance, Image Quality Adjustment, Day / Night  APPLICATION  APPLICATION  Camera-side: Admin Viewer VB Viewer  Client-side: RM-Lite Viewer Admin Tools  Privacy Mask Setting Tool Perest Setting Tool Pere	View Restriction	Available
Detection Types: moving object detection, abandoned object detection, removed object detection, camera tampering detection, and passing detection camera tampering detection. Provided object detection object detection object detection object object detection. Among passing detection object detection.  Event Trigger Type  External Device Input, Timer, Intelligent Function (Video), Intelligent Function (Volume)  Image Upload  FTP / HTTP / SMTP (e-mail)	Preset	Max. 64 positions
Intelligent Function (Volume)  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)  Event Notification  Dr-Screen Display  Available  Available  Available  Custom Settings  Number of registers: 4 Items to Reg. Pan / Tilt / Zoom, Exposure, Smart Shade Control Haze Compensation, Focus, White Balance, Image Quality Adjustment, Day / Night  APPLICATION  Viewer  Camera-side: Admin Viewer VB Viewer Client-side: RM-Lite Viewer  Admin Tools  Privacy Mask Setting Tool Panorama Creation Tool View Restriction Setting Tool Panorama Creation Tool View Restriction Setting Tool Intelligent Function Setting Tool Intelligent Function Setting Tool Presst Setting Tool Press Setting Tool Intelligent Prunction Setting Tool Press Setting Tool	Intelligent Function	Detection Types: moving object detection, abandoned object detection, removed object detection, camera tampering detection, and passing detection Detection Settings: Max. 15  Volume:
Temporary storage memory in camera: Max. approx. 5 MB Frame Rate: Max. 10 fps (JPEG) Max. 30 fps (H.264)  Event Notification HTTP / SMTP (e-mail) On-Screen Display Available Available Daylight Saving Time Custom Settings Number of registers: 4 Items to Reg.: Pan / Tilt / Zoom, Exposure, Smart Shade Control Haze Compensation, Focus, White Balance, Image Quality Adjustment, Day / Night  APPLICATION Viewer Camera-side: Admin Viewer VB Viewer Client-side: RM-Lite Viewer Admin Tools Privacy Mask Setting Tool Panorama Creation Tool View Restriction Setting Tool Intelligent Function Setting Tool Log Viewer Recorded Video Utility Included Software Camera Management Tool RM-Lite Proxy Authentication Admin Tools / Admin Viewer Recorded Video Utility  Intelligent Function Setting Tool Log Viewer Recorded Video Utility  Intelligent Function Setting Tool Log Viewer Recorded Video Utility  Intelligent Function Setting Tool RM-Lite Proxy Authentication Admin Tools / Admin Viewer  Language German / English / Spanish / French / Italian / Russian / Turkisl / Japanese  INTERFACE  Network Terminal LAN x 1 (RJ45, 100Base-TX (auto / full-duplex / half-duplex)) AJ5.5 mm (ФО.14 in.) mini-jack connector (monaural) Switch LINE In / SMIC 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)  External Device I/O Terminal Input x 1, Output x 1  Memory Card microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card Compatible. Frame Rate: Max. 1 fps (JPEG) Max. 30 fps (H.264)  OTHER  Operating Environment Temperature: -10°C - +50°C (+14°F - +122°F) Humidity: S% - 85% (without condensation) Power Supply Power Consumption Poser Supply Industry Symbol State Viewer Proxy Authentication Admin Tools / Admin Viewer Line Roy Recompany Card, microSDAC Memory Card, Consumption (Power Supply via LAN cable (IEEE802.3af compilant) Power Consumption	Event Trigger Type	
On-Screen Display   Available	Image Upload	Temporary storage memory in camera: Max. approx. 5 MB Frame Rate: Max. 10 fps (JPEG)
Daylight Saving Time	Event Notification	HTTP / SMTP (e-mail)
Custom Settings         Number of registers: 4 Items to Reg. Pan / Tilt / Zoom, Exposure, Smart Shade Control Haze Compensation, Focus, White Balance, Image Quality Adjustment, Day / Night           APPLICATION         Camera-side: Admin Viewer VB Viewer Client-side: RM-Lite Viewer           Admin Tools         Privacy Mask Setting Tool Panorama Creation Tool View Restriction Setting Tool Intelligent Function Setting Tool Intelligent Function Setting Tool Intelligent Function Setting Tool Log Viewer Recorded Video Utility           Included Software         Camera Management Tool RM-Lite Proxy Authentication Admin Tools / Admin Viewer           Language         German / English / Spanish / French / Italian / Russian / Turkisl / Japanese           INTERFACE         LAN x 1 (RJ45, 100Base-TX (auto / full-duplex / half-duplex))           Audio Input Terminal (common for LINE IN & MIC IN) in the setting page.         Φ3.5 mm (Φ0.14 in.) mini-jack connector (monaural) Switch LINE IN / SMIC IN in the setting page.           MIC IN)         LINE IN x 1 (Connect to an amplifier microphone) or MIC IN x 1 (connect to a microphone w/o amplifier)           External Device I/O Terminal         Input x 1, Output x 1           Memory Card         microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card Compatible. Frame Rate: Max. 1 fps (JPEG) Max. 30 fps (H.264)           OTHER         OPerating Environment         Temperature: -10°C - +50°C (+14°F - +122°F) Humidity: 5% - 85% (without condensation)           Power Consumption         Max. 7.8 W - Class 0 power sourcing equipment (requests 15.4 W	On-Screen Display	Available
Items to Reg.; Pan / Tilt / Zoom, Exposure, Smart Shade Controt Haze Compensation, Focus, White Balance, Image Quality Adjustment, Day / Night  APPLICATION  Viewer  Camera-side: Admin Viewer VB Viewer Client-side: RM-Lite Viewer Admin Tools  Privacy Mask Setting Tool Panorama Creation Tool View Restriction Setting Tool Panorama Creation Tool View Restriction Setting Tool Intelligent Function Setting Tool Intelligent Function Setting Tool Log Viewer Recorded Video Utility  Included Software  Camera Management Tool RM-Lite Proxy Authentication Admin Tools / Admin Viewer  Language  German / English / Spanish / French / Italian / Russian / Turkisl / Japanese  INTERFACE  Network Terminal  LAN x 1 (RJ45, 100Base-TX (auto / full-duplex / half-duplex))  Audio Input Terminal (common for LINE IN & MIC IN in the setting page.  MIC IN)  Disconnect to a microphone w/o amplifier interophone) or MIC IN x 1 (connect to a microphone w/o amplifier)  External Device I/O Terminal  Memory Card  microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card Compatible. Frame Rate: Max. 1 fps (JPEG)  Max. 30 fps (H.264)  OTHER  Operating Environment  Temperature: -10°C - +50°C (+14°F - +122°F) Humidity: 5% - 85% (without condensation)  Power Supply  PoE: PoE power supply via LAN cable (IEEE802.3af compliant)  Power Consumption  Max. 7.8 W  - Class Opower sourcing equipment (requests 15.4 W)	Daylight Saving Time	Available
Viewer         Camera-side: Admin Viewer VB Viewer Client-side: RM-Lite Viewer           Admin Tools         Privacy Mask Setting Tool Panorama Creation Tool View Restriction Setting Tool Intelligent Function Setting Tool Intelligent Function Setting Tool Log Viewer Recorded Video Utility           Included Software         Camera Management Tool RM-Lite Proxy Authentication Admin Tools / Admin Viewer           Language         German / English / Spanish / French / Italian / Russian / Turkist / Japanese           INTERFACE         Network Terminal (common for LINE IN & MIC IN) MINING IN In the setting page. LINE IN 1 (Connect to a manplifier microphone) or MIC IN x 1 (connect to a manplifier microphone) or MIC IN x 1 (connect to a manplifier microphone) or MIC IN x 1 (connect to a microphone w/o amplifier)           External Device I/O Terminal Memory Card (microSD Memory Card, microSDMC Memory Card, microSDMC Memory Card, microSDMC Memory Card (connect to a microphone) or MIC IN x 1 (connect to a microphone) or MIC IN x 1 (connect to a microphone w/o amplifier)           External Device I/O Terminal Memory Card (connect to a microsDMC Memory Card, microSDMC Memory Card (connect to a microsDMC Memory Card (connect to a microphone) or MIC IN x 1 (connect to a microphone w/o amplifier)           External Device I/O Terminal Memory Card (connect to a microsDMC Memory Card, microSDMC Memory Card (connect to a microsDMC Memory Card, connect to a microsDMC Memory Card (connect to a micro	Custom Settings	Items to Reg.: Pan / Tilt / Zoom, Exposure, Smart Shade Control, Haze Compensation, Focus, White Balance, Image Quality
VB Viewer	APPLICATION	
Panorama Creation Tool View Restriction Setting Tool Preset Setting Tool Intelligent Function Setting Tool Log Viewer Recorded Video Utility  Included Software  Camera Management Tool RM-Lite Proxy Authentication Admin Tools / Admin Viewer  Language  German / English / Spanish / French / Italian / Russian / Turkisl / Japanese  INTERFACE  Network Terminal LAN x 1 (RJ45, 100Base-TX (auto / full-duplex / half-duplex)) Audio Input Terminal (common for LINE IN & MIC IN) MIC IN) Switch LINE IN / sMIC IN in the setting page. LINE IN x 1 (connect to an amplifier microphone) or MIC IN x 1 (connect to an amplifier microphone) or MIC IN x 1 (connect to an amplifier microphone) or MIC IN x 1 (connect to an incrophone w/o amplifier)  External Device I/O Terminal  Memory Card  microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card Compatible. Frame Rate: Max. 1 fps (JPEG) Max. 30 fps (H.264)  OTHER  Operating Environment  Temperature: -10°C - +50°C (+l4°F - +122°F) Humidity: 5% - 85% (without condensation)  Power Supply  PoE: PoE power supply via LAN cable (IEEE802.3af compliant)  Max. 7.8 W - class 0 power sourcing equipment (requests 15.4 W)	Viewer	VB Viewer
RM-Lite Proxy Authentication Admin Tools / Admin Viewer  Language  German / English / Spanish / French / Italian / Russian / Turkisl / Japanese  INTERFACE  Network Terminal Audio Input Terminal (common for 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)  External Device I/O Terminal Input x 1, Output x 1  Memory Card  microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card Compatible. Frame Rate: Max. 1 fps (JPEG) Max. 30 fps (H.264)  OTHER  Operating Environment  Temperature: -10°C - +50°C (+14°F - +122°F) Humidity: 5% - 85% (without condensation)  Power Supply  Poser Consumption  Max. 7.8 W - Class 0 power sourcing equipment (requests 15.4 W)	Admin Tools	Panorama Creation Tool View Restriction Setting Tool Preset Setting Tool Intelligent Function Setting Tool Log Viewer
NTERFACE	Included Software	RM-Lite
Network Terminal  LAN x 1 (RJ45, 100Base-TX (auto / full-duplex / half-duplex))  Audio Input Terminal (common for LINE IN & MIC IN)  D3.5 mm (Ф0.14 in.) mini-jack connector (monaural) Switch LINE IN / sMIC IN in the setting page.  LINE IN x 1 (connect to a maplifier microphone) or MIC IN x 1 (connect to a microphone w/o amplifier)  External Device I/O Terminal  Memory Card  Input x 1, Output x 1  microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card Compatible. Frame Rate: Max. 1 fps (JPEG)  Max. 30 fps (H.264)  OTHER  Operating Environment  Temperature: -10°C - +50°C (+I4°F - +122°F) Humidity: 5% - 85% (without condensation)  Power Supply  PoE: PoE power supply via LAN cable (IEEE802.3af compliant)  Max. 7.8 W  - Class 0 power sourcing equipment (requests IS.4 W)	Language	German / English / Spanish / French / Italian / Russian / Turkish / Japanese
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Memory Card         microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card Compatible. Frame Rate: Max. 1 fps. (JPEG)           OTHER         Max. 30 fps (H.264)           Operating Environment         Temperature: -10°C - +50°C (+14°F - +122°F) Humidity: 5% - 85% (without condensation)           Power Supply         PoE: PoE power supply via LAN cable (IEEE802.3af compliant)           Power Consumption         Max. 7.8 W - Class 0 power sourcing equipment (requests 15.4 W)	(common for LINE IN &	Switch LINE IN / sMIC IN in the setting page. LINE IN x 1 (connect to an amplifier microphone) or MIC IN x 1
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Operating Environment         Temperature: -10°C - +50°C (+14°F - +122°F) Humidity: 5% - 85% (without condensation)           Power Supply         PoE: PoE power supply via LAN cable (IEEE802.3af compliant)           Power Consumption         Max. 7.8 W - Class 0 power sourcing equipment (requests 15.4 W)	Memory Card	Memory Card Compatible. Frame Rate: Max. 1 fps (JPEG)
Humidity: 5% - 85% (without condensation)  Power Supply  PoE: PoE power supply via LAN cable (IEEE802.3af compliant)  Max. 7.8 W  - Class 0 power sourcing equipment (requests 15.4 W)	OTHER	
Power Consumption Max. 7.8 W - Class 0 power sourcing equipment (requests 15.4 W)	Operating Environment	
- Class O power sourcing equipment (requests 15.4 W)	Power Supply	PoE: PoE power supply via LAN cable (IEEE802.3af compliant)
	Power Consumption	
Dimensions         (Φ x H) Φ 120 x 54 mm (Φ 4.72 x 2.13 in.)           - excluding projections	Dimensions	( $\Phi$ x H) $\Phi$ 120 x 54 mm ( $\Phi$ 4.72 x 2.13 in.) - excluding projections
<b>Weight</b> Approx. 270 g (9.6 oz.)	Weight	Approx. 270 g (9.6 oz.)

All data is based on Canon standard testing methods except where indicated. Subject to change without notice.  $\label{eq:controller} \begin{minipage}{0.5\textwidth} \begin{m$ 

