BV-A12^{S}

4G LTE H.265 Body Worn Camera

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1080P/30fps | 4G LTE, GPS, WIFI | H.265 & H.264 | 10m night vision

BV-A12^{S} is the high-end 4G LTE H.265 Body Worn Camera tailor-made for law enforcement application. Adopting the latest Smart HEVC technology, BV-A12^{S} can achieve the 1080P/30fps live view in 4G network but save high-volume bit rate (50% of H.264).
BV-A12^{S} also features 170º angle view with distortion correction, 1512P realtime video recording, video encryption, 64MP photo resolution, 2.0" Full HD display, 10 meter IR night vision, long recording time (15hr), large storage capacity (256GB) and GPS/WIFI function. The SOS alarm and 2-way audio allow immediate emergency report to back-office center.

Key Features

- 4G LTE Body Worn Camera
- Live remote video/audio streaming
- H.265/H.264 Compression
- 170º field of view
- IP67 waterproof and dust-proof
- 3D Motion compensated noise reduction
- 2.0" Full HD LCD
- 64MP resolution image shooting
- 10 meters IR night vision
- GPS, Wi-Fi, 3G/4G_LTE (optional)
- 15hr recording time at 1080p/30fps
- Two-way audio for the device & CMS
- AES256 Video Encryption, Safe Mode
- Watermark, QR code binding
- Peer-assistant recording

Technical Specifications

General

Chipset	Ambarella S5L
System	Linux 4.9.110
LCD	2.0" Full HD LCD screen, 320x240
LCD brightness	>200cd/㎡
LCD contrast	≥2000:1
Image Sensor	1/3" Color CMOS sensor (OS05A10), 5MP
Viewing Angle (HOV)	127º (HOV), 170º (FOV)
Dewarp	Dewarp processing before encode (>120º)
Memory	Default 32GB SD Card (SDHC, SDXC max.256GB)
Microphone	Built-in, ¢2.5mm
Data port	1x USB for charging, communication with PC, firmware ugprade
Audio interface	2.5mm jack for headphone, microphone and PTT
Peer-assistant recording	In BT mode, when one BV-A12s triggered manual or SOS recording, it will send broadcast of recording to the nearby BV-A12s.
Indicator	Charging, Video record, Audio record, Snap, Idle
Two-way Audio	Support 2-way audio between BWC Support 2-way audio between BWC and platform
Time Synchronization	Synchronize date/time with GPS, internet, PC
Software	Bodycam tool, PC player, CMS, Mobile app (Live monitoring, GPS positioning, track, playback, intercom, remote command and etc, for 3G/4G device)
Default	Reset with factory default setting

Wireless Transmission

3G/4G Real-time Transmission	Asia-Pacific/EMEA FDD LTE: B1, B3, B5, B7, B8, B20 TDD LTE: B38, B40, B41 WCDMA: B1, B5, B8; GSM: B3, B8
	North America FDD LTE: B2, B4, B5, B12, B13, B14, B66, B71 WCDMA: B2, B4, B5
Wi-Fi	Wi-Fi 802.11b/g/n (802.11ac, optional) Remote live view/monitoring via wireless network, managed by large scale networking CMS software
Bluetooth	BT4.0
Network Protocol	TCP/IP, RTSP, RTMP, GB/28181 (3G/4G model)
GPS	Internal GPS module with time synchronization, GPS/GLONASS (optional), record and remote view of location & speed, < 25 sec from cold start
Dual Bit Stream	Two independent video streams for local record and live streaming via 3G/4G

Photo

Output pixel	16/32/40/64 Mega pixels
Image Resolution	1920x1080 ~ 10368x5920 (max.)
Photoburst	Snap during recording (resolution based on record)
Digital Zoom	4X/8X
Shutter control	Electronic shutter
Exposure control	Auto
White balance	Auto
Photo format	JPEG

Video/Audio

Video input	1920x1080
Video transmission	1920x1080, 1280x720 for 4G live view
Video record	2688x1512, 2560x1440, 1920x1080
Video format	H.264 (MP/HP Level 5.1)/H.265 (MP Level 5.0)
Audio input	1x MIC input, support intercom connection
Audio format	PCM (AAC, optional)
Low bit rate	Ambarella Smart HEVC technology for volume saving
Frame rate	1512p/25fps, 1440p/30fps, 1080p/30fps (1080p/60fps)
Video record mode	Video & Audio synchronization
Audio record mode	Audio record only, one key switch between Audio and Video record mode
Pre-record/Post-record	60s/30s/20s/10s/Off adjustable (customizable)
Video recording time	1080p30 record at 14h (3500mAh), 15h (4200mAh)

GUI Operation

LED	Auto switch, IR Cut, High-power LED, Laser positioning, Flash light
Night vision	Infrared light, 10meters with visible shape image
IR Cut	Automatic
OSD language	English/Chinese/Spanish (other language by request)
QR Code	Bind Server IP and user ID with QR Code
Face Recognition*	Face recognition analytics, huge local blacklist or cloud recognition (optional)
Startup time	< 6 sec (from power on to recording)
Parameter settings	LCD menu (Display & record date/time, device ID, officer ID, location, speed; Overwrite; Safe mode; Video Encryption; Log)
Playback	Playback file by time and alarm 1/128x to 128x Fast Forward/ Rewind
Button	Power/ Video Record/ Photo/ Voice Record/ Replay/ Shut-off/ SOS/ Intercom/ Reset
Alarm input (SOS)	alarm input shown in platform (3G/4G model)
Menu lock	password authentication on menu configuration or power off

Mechanical

Battery	3500mAh (4G remote view at 7.5hr, 3hr fully charged) 4200mAh (4G remote view at 9hr, 3.5hr fully charged)
Charging Cradle	Fast charging @2A, USB data tramission, splicable
Low power consumption	<1.2W @1080p/30fps recording with audio (without GPS, WIFI, 4G_LTE working)
4G standby consumption	2mA standby current with remote data wake up
Built-in modules	GPS, Wi-Fi, 3G/4G_LTE (optional)
Ingress protection	IP67
Drop test	2.5meter
Charging time	3~3.5hours (use the standard power adaptor)
Charge base	for battery charging and data transmission
Working temperature	-30℃-+60℃ / -22℉-+140℉, RH 40%~80%
Weight	145g / 0.319lbs
Dimensions (L x W x H)	83.2 x 54.8 x 29.8mm / 3.276" x 2.157" x 1.173"

Functionality

Items	Details
Photographing	Press single button to capture photograph during video shooting without affecting the normal video Built-in 5 million pixel camera, support recording at 1512P, 1440P, 1080P or 720P resolution Support taking picture with 61M, 40M pixels, 32M pixels, 16M pixels
Wireless Transmission	The device has the function of transmitting the video under the whole network 3G, 4G wireless communication mode
Global Positioning System	User can get live tracking of the device through built-in GPS in the device. The GPS data will also be recorded into the record file with audio and video, so user can get the location in the record file.
Infrared Night Vision	The outline of the human body can be seen in 10meter effective distance The facial features can be recognized in the effective 3-5meter shooting distance
Browse, retrieve and playback	The video and audio, photo and other information saved in the device can be browsed, retrieved and replayed according to the time
Character Superimposing	Information can be automatically overlaid in the recorded video and the pictures, for example time, date, device ID, user ID, GPS location information. Recorded file name has information on date, time, record type, which makes it easier for searching and archiving.
Display	The device can display information about battery usage, charging status, system time and memory space. Device have light indication for power on, recording video or audio. Green light indicates power on, red light indicates recording.
Time Synchronization	When the device connected to the host computer, the time can be automatically synchronized with the time server through the management software.
Abnormal Alarm	The device can report event alarm, including alarm of battery under pressure, insufficient memory space alarm etc.
Data Integrity	The device can store the data and protect stored data, stored data is not removed or covered by this machine or unauthorized host computer. The device in the abnormal problems can be restarted, the stored data will not be lost or damaged after the restart.
Log Recording	The device can log events including power on/off, recording video, recording audio, taking pictures, GPS status fixed, 3G/4G connection, and Wi-Fi connection.
Special Management Software	A. Hierarchical management and authorization authentication. B. You can set the basic parameters, such as the system time, password, and the grading system. C. You can upload, cancel, and query the stored files in the device. D. This device can store and retrieve information according to the number and time of the information. E. The video resolution and frame rate can be set F. The users and user department can be set G. This device has the function of automatic data import. When the product is connected with the authorized host computer through the communication interface, the internal video and audio information, audio information, photo and log data, user information, file type, upload time can be automatically uploaded.
Panic Button (SOS)	The panic button alarm can be sent to control center through 3G/4G.
Information Upload	All the information can be uploaded, just like the recorded video, audio, photos, internal time and memory capacity information, user information and use of personal information
Information Download / Receive	A. The information used to calibrate the local calendar clock should be downloaded or received, like "year, month, day, hour, minute and second" B. Some information of configuring the working mode of the device, such as reading the record data, deleting the control instruction of the recorded data and so on C. Video and photo resolution, user information
Two-way Intercom	Cluster intercom: support cluster intercom between terminal devices (for 3G/4G model only) Intercom with platform: support intercom between terminal devices and server (for 3G/4G model only)

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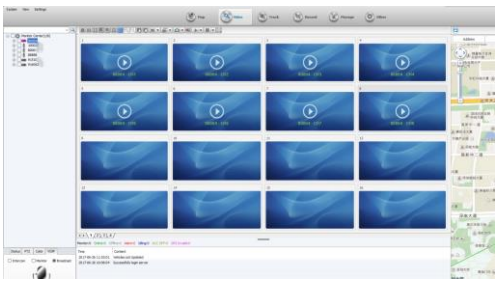
Product image

Package contains

				
Main unit with 32GB (optional 64/128/256GB)	Shoulder clip (Short & Long)	Power adapter	USB cable	Charge base

Software

		
CMS Platform	PC Player	Mobile App