



Triple cam design | Dual Sim | 3.5" LCD | IP67

WatchDog PRO Live is the high-end 4G LTE Full HD Body Worn Camera tailor-made for law enforcement and high security applications. With IP67 waterproof, shock and vibration-resistant, dust-proof design, the outstanding performance delivers clear and sharp images in extremely low light conditions.

WatchDog PRO Live features 120° angle view, 3.5" HD display, 1080P video recording, Dual sim card, 16MP photo resolution, 10m IR, external 1080P camera support, real-time video streaming, 2-way audio, SOS alert, laser indicator.

WatchDog PRO Live uses a powerful software package which consists of a CMS Client and Server Management Platform for live streaming. Optional DEMS is available for complete Video Management capabilities.

Technical Specifications

Product series	WatchDog PRO Live
System	Android 8.0, built-on MTK6739 soc
Processor	Quad-core ARM/1.5GHz/64 bit CPU
LCD	3.5" (320x480) capacitive IPS multi-touch screen (up to 5 dots)
Sensor Type	5MP, SONY star light sensor
Field of View	120° wide-angle lens
Focus Range	0.5m ---∞
Camera	1x Main camera (4MP FF 108°), 1x Front camera (2MP FF 64°), 1x Smart camera (13MP, A)
External Camera	Support 720P/1080P external camera (optional)
TF Card	64GB
Memory RAM+ROM	2GB+64GB
Sim Card	2 x Nano Sim card support
Microphone	Built-in microphone and speaker, c2.5mm
Trumpet	Dual trumpets
Auxiliary Interface	1x Micro USB2.0, 1x BT4.0, 1x USB POGO 5 PIN, 2x Sim slot, 1x TF slot, 1x Bluetooth earphone
LED Indicator	White light LED, color video shooting at night
Push to talk	Support
NFC	IEC14443 Type A/B
Sensor	Ambient Light Sensor/ Proximity Sensor / Gravity Sensor / 3D acceleration sensor / Compass

Wireless Transmission

2G/3G/4G Real-time Transmission (6 modes, 16 bands)	TDD LTE: B38/B39/B40/B41 FDD LTE (Asia/EU): B1/B3/B5/B7 (B28A/B customized) WCDMA: B1/B5 TD-SCDMA: B34/B39 EVDO/CDMA2000: BCO GSM: 900/1800
Wi-Fi	802.11ac/a/b/g/n, 2.4G/5G
Bluetooth	BT 4.1 with BLE, BT2.1+EDR (BT5.0 downward compatibility)
GPS positioning	GPS/GLONASS hybrid positioning system
Maximum load rate	Upload: TDD cat7 100Mbps, Download: TDD cat13 300Mbps
Voice intercom	Public network voice intercom

Photo

Image Resolution	16 Mega pixels
Shutter control	Electronic shutter
Exposure control	Auto
White balance	Auto
Photo format	JPEG

Video/Audio

Video Input	Built-in camera: 1080P; External camera: 720P/1080P (optional)
Video transmission	1080P under 4G network, 256kbps-8Mbps
Video record	FHD(1920*1080) / HD(1280*720) / HD(720*480) / VGA (640*480) at 30fps
Video encode	H.264
Video format	MP4
Audio format	AAC
Pre-& Post-record	0 / 5 / 10 / 15 sec (customizable)

Operation UI

LED	IR-CUT, High-power LED, Laser indicator, Flash light, Infrared light, Police light (Blue & Red)
Night vision	about 10meter in total darkness with fill light
OSD language	English
Buttons	Power/ Video Record/ Photo/ Voice Record/ PTT/ Event Mark/ SOS / Self-defined

Key Features

- 4G LTE Body Worn Camera
- Live H.264 video streaming
- 1080P FHD Video recording
- Dual 4G SIM card support (Manual Switching)
- Triple camera support
- Triple mic noise reduction, 3W speaker
- External 720P/1080P camera support
- FOV:120° (diagonal), 107° (horizontal)
- IP67 waterproof and dust-proof
- 3.5" IPS Touch Screen (Corning Gorilla III), support glove-wearing operation
- 16MP resolution image shooting
- 10 meters IR Night Vision
- GPS, WIFI (2.4G/5G), Bluetooth, NFC built-in
- Dual video streaming supported
- Shock & corrosion protection, 2M drop test
- One-key SOS, Two-way audio, Group call
- Data safety with encryption
- Watermark function
- WatchDog Client & Platform Server management

Mechanical

Battery (Li-Polymer)	Standard: 4000mAh, Standby: 70mAh, 4.2V, replaceable
IP Standard	IP67
Drop Test	2 meters
Charging method	Adapter, USB or vehicle, DC 5V, 1000mA, charger, dock station
Working time	8hr/4000mAh battery, 48hr standby
Charging time	~2hour, fast charging PE+ protocol support
ESD	Touch: ±6KV, Air: ±8KV
Temperature	Working: -30°C ~ +55°C Storage: -40°C ~ +60°C
Weight	<180g (2700mAh), <200g (4000mAh)
Dimensions	107.0mm x 63.8mm x 17.5mm

Security

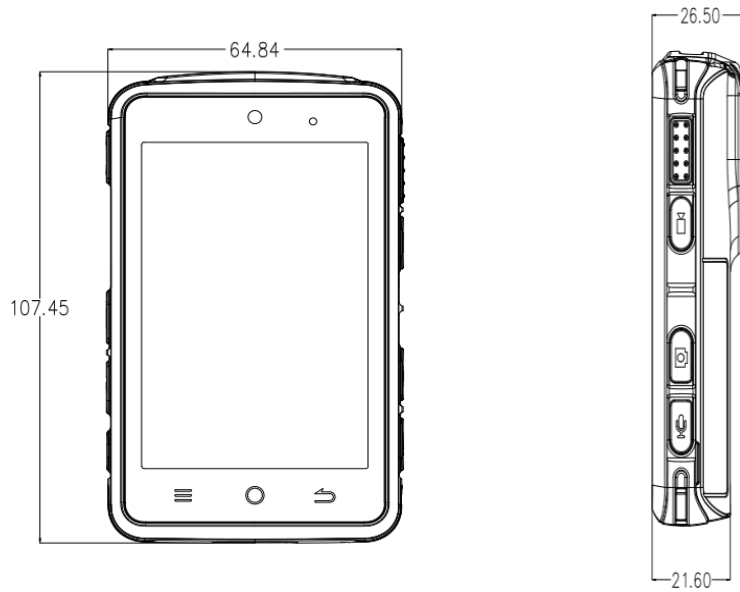
WatchDog Pro Live BWC Communication	BWC is registered with the Platform Server to establish a command channel
Camera Registration on Platform Server	Registration process adopts CHAP Authentication. Command channel adopts DES Encryption
Audio/ Video	Transmitted through the Data channel using a private protocol.
Additional Security Requirements	For higher security requirements, a confidential gateway solution can be implemented.

Functionality



<i>One-key Operation</i>	<p>One key operation for video recording, audio recording or snapshot.</p> <p>Single button to capture photograph during video recording without affecting the normal video</p>
<i>3G/4G/Wi-Fi Transmission</i>	<p>Embedded with 3G/4G/WIFI module, the device can register into a public network to connect with a VMS and can send all the information (video/ audio/ alarm/ GPS) through wireless network.</p> <p>The device supports live video streaming under the network 4G/5G wireless communication mode</p> <p>Speed: TDD: max. upstream rate @ TDD cat4 50Mbps; max. downstream rate @TDD cat4 150Mbps</p> <p>FDD: max. upstream rate @ FDD cat4 50Mbps; max. downstream rate @ FDD cat4 150Mbps</p>
<i>Global Positioning System</i>	<p>The device can receive satellite data and upload the position information to the command center in real time through the built-in communication module.</p> <p>Geo-Fence function: alarm trigger if crossing the geo-fence</p> <p>Support GPS/Baidou (Glonass) hybrid Positioning</p>
<i>Infrared Night Vision</i>	<p>The outline of the human body can be seen in 10-meter effective distance</p> <p>The characters in the picture of the facial features can be recognized in the effective 3~5meter shooting distance</p>
<i>Sensor</i>	Support Ambient Light Sensor/ Proximity Sensor / 3D acceleration sensor / Compass
<i>Browse, retrieve and playback</i>	The video and audio, photo and other information saved in the device can be browsed, retrieved and replayed according to date/ time
<i>Character Superimposing</i>	Information can be automatic overlay in the recorded video and the pictures e.g. time, date, user number, GPS location information
<i>Display</i>	<p>The device can display battery charge, charge status, system time, storage margin and other information.</p> <p>Boot, voice recording, video state available with light indicator.</p>
<i>Time Synchronization</i>	When the device connected to the host computer, the time can be automatically synchronized with the time server through the management software.
<i>One key SOS</i>	In the event of an emergency, users can activate the SOS button which triggers an alarm which sends event to the CMS, while the GPS information, real-time video and audio will be sent back at same time.
<i>Data Integrity</i>	The device can store the data and protect stored data, stored data is not removed or viewed by unauthorized host computer. The device in an abnormal state can be restarted, the stored data will not be lost or corrupt after the restart.
<i>Log Recording</i>	The device can record the running status and operation information, such as the on / off time, video time, recording time and photographic operation information. Log reading and cleaning can only be done through the host computer system management software.
<i>Colour Reduction</i>	The picture colour is similar to the body colour during video display or playback. The device has the function of automatic infrared filter.
<i>Information Upload</i>	All the information can be uploaded e.g. recorded video, audio, photos, internal time and memory capacity information, user information and use of personal information
<i>Information Download / Receive</i>	<p>A. The information used to calibrate the local calendar clock can be download or received, like "year, month, day, hour, minute and second"</p> <p>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</p> <p>C. Video and photo resolution, user information</p>
<i>Group talking</i>	<p>Administrator can build groups and add different users into one group.</p> <p>Users can talk and send message to other members in this group.</p>
<i>Two-way Audio</i>	<p>Support 2-way audio between BWC</p> <p>Support 2-way audio between BWC and platform</p>



Dimensions



Optional Accessories

	
<p>WDP-DC Desktop charger (simultaneous charging of WatchDog Pro Live and battery)</p>	<p>WDP-EX 1080P External Camera (Helmet-mounted)</p>