



## 1. Summary of the Products

TV-200 adopts high-speed processor and embedded Linux operating system, super low illumination color camera, audio, 4G and Wi-Fi communication module, GPS, compass, alarm module, configuration HD night vision camera and wireless Bluetooth headset. The device can perform real-time video and audio information transmission, voice intercom and other functions through 4G cellular and wireless network. Incorporating with the monitoring and dispatching command platform system with back-end functions to achieve remote dispatching and command function for outdoor mobile individuals.

## 2. Product Features:

- Adopting Ambarella S5L chip, TV200 features outstanding recording effect and robust performance, coupled with clear, low illuminated industrial grade 1/1.8 CMOS photosensitive sensor.
- The latest Smart HEVC technology can achieve the 1080P/30fps live view in 4G network but save high-volume bit rate (50% of H.264).
- Using the embedded real-time operation system and Linux dual system, which optimize boot speed and stability, and it can effectively prevent viruses and other invasive systems.
- IP66 waterproof and dustproof design can effectively prevent rain and dust entry
- Industrial grade plastic and bare metal structure design withstands 1.5 meters free falling body, and the data will not be damaged.
- Support 2K real-time recording and adopt starlight night vision sensor, ultra-low illumination, allowing color mode at night
- Support Bluetooth headphones for intercom and clustered calls.
- Built-in full network 4G module, TV200 supports the live video streaming in the 4G/3G cellular network and in wireless communication mode. Support frequency bands in Asia/Europe/America.
- Built in Wi-Fi module for wireless transmission, support WEP, WPA, WPA2 encryption
- Built-in GPS positioning module for platform positioning and track replay.
- Support the two-way audio of the equipment and the platform, and the PTT cluster intercom.
- Support AES/DES video encryption for security purpose
- SOS alarm function: send alarm information to the platform.
- Long operation time with large capacity and replaceable battery, with continuous video recording at 8 to 10 hours, 4G transmission at 6 hours.
- Support mobile client access: video preview, equipment parameters configuration, video search and playback, convenient for remote maintenance

TV-200  
4G LTE TACTICAL HELMET CAMERA



3. Product Specifications

1. Product Definition			
Model	TV-200, 4G LTE Tactical Helmet Camera		
2. Hardware Design			
Hardware platform	Ambarella S5L		
Operating system	Linux	4.9.110	
	Booting time	< 7sec	
	Language	English	
Lens	Angle view	FOV ≥125°	
Camera sensor	CMOS	5MP	
Dimension	92 x 62 x 44 (mm)		
Weight	215g		
Screen	2inch Full HD LCD		
Software	PC Tool, hPlayer, CMS platform		
Compatible O/S	Windows 7/Windows 8/Windows 10		
Audio and video	Compression	H.265/H.264 (.avi or .MP4)	
	Recording Resolution	2688x1512,2560x1440,1920x1080	
	Frame Rate	30fps	
	Record Mode	Record audio and video simultaneously	
	Microphone	IMI head built-in front shell test range 5 meters	
Photo	Resolution	1920x1080 ~ 10368x5920	
	Format	JPEG	
IR Night Vision	Highlight LED flash		
	Infrared: Manual/Auto (10M human facial features / 15M human contour)		
Button	Switch, Home, Replay, Functional		
Alarm	Alarm Input	Supported, alarm can be shown in platform	
Log function	Supported		
Time Synchronization	Synchronize with GPS, internet, PC		
Battery	Capacity	2600mAh*2pcs	
	Voltage	3.7V	
	Charging time	Less than 3 hours	
	Continuous working time	8-10hr (with 4G off), ~6hr (with 4G on) per battery	
Storage	TF Card	16/32/64/128/256GB (optional), max. 120hr record	
Signal communication	4G transmission	4G module	Asia/EU/America bands supported
	Wi-Fi module	SIM card	Nano sim slot
	GPS module	Built-in	
	Bluetooth	Built-in	
	Live Video Transmission	1512P, 1440P, 1080P	
	Dual bit stream	Two different bit streams for recording and live streaming via 4G/3G	
	Two-way Audio	Talk back (between devices)	
		Talk back in platform (between device and platform)	
USB	Mini 5PIN USB2.0 connects computer data transmission or charging		
3. Product Performance			
IP Rating	IP66 waterproof and dust resistant		
Drop Test	1.5 meter		
Working environment	Working temperature	-20°C ~ 55°C	
	Relative humidity	40% ~ 80%	
Storage environment	Storage temperature	-30°C ~ 60°C	

4. Application



2" HD Screen  
Visualization  
Data encryption



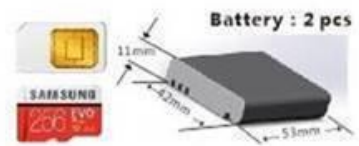
4 Megapixel HD lens  
Auto infrared night vision



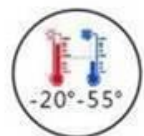
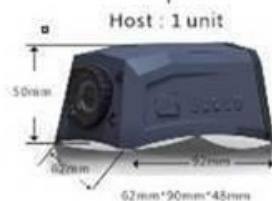
Support trunked talkback



3G/4G Network  
256GB TF Card  
Battery □ 8 Hours □



Small Volume  
Host : 62\*90\*48mm  
Battery : 53\*42\*11mm



5. Package

Item	Image	Description	Remark
1		4G Tactical Helmet Camera	Standard
2		2600 Battery x 2	Standard
3		PTT Earphone	Standard
4		USB Cable	Standard
5		Power adapter	Standard
6		Command and dispatch system software	Standard
7		Tactical light + Laser sights	Optional
8		Helmet (FAST)	Optional
9		Goggles	Optional
10		Multi-spectrum Light Emitter	Optional
11		Portable Protection Case	Optional
12		16GB/32GB/64GB/128GB/256GB TF card	Optional
13		Device fixed Velcro	Optional
14		Noise-reduction Headpone	Optional