Care / Connect / Customize

Extend Your Reach

DATASHEET

4G Body Worn Camera

WiB-B01

Description

The advent of disasters, unsafe actions and behaviors, security breaches, and inside robbery job will cause loss of life and property, and property, and endanger the image of the company or institution.

A system was developed to address this need, enabling immediate police on-duty response, fire disaster relief command, factory inspections, video and audio recording for post-incident review and training.

This mobile wearable/lithium battery powered/4G or Wi-Fi wireless real-time transmission multi-functional WiB-B01, combined with our EOC Server software, provides an optimal audio-visual command and action capability emergency response system. It offers real-time video/audio streaming, group PTT intercom, GPS location, SOS, and life-saving alarm notifications. While commanders simultaneously engage in audio-visual communication, on-site commanders and remote supervisors can easily understand the situation remotely with virtually no time difference, thereby minimizing or avoiding casualties and enabling real-time command.

This product uses the American Ambarella S5 high-quality chip and is built-in American 4G/GPS and Taiwan MTK Wi-Fi ICs. It can provide safe and secure Taiwan-designed and manufactured WiB-B01 products and EOC system software.

Features

- **Compact and Lightweight Design :** Easy to operate with flexible buttons.
- **2-inch Screen :** Simplifies operation and viewing.
- **Dual-lens :** Dual-lens design, one on the B01/B02, external wired lens options
- **Durability :** IP67-certified, 2-meter drop resistance, and flame-retardant shell.
- **Advanced Encoder :** USA-made Ambarella S5 SoC for efficient video compression.
- **4G Chip :** USA Qualcomm 4G LTE cat.4 chip
- **Night Vision :** USA OV 5MP low-lux sensor for full-color night vision.
- **High-Resolution Media :** Video up to 2688x1512P@25fps; photos up to 64MP.
- **Ample Storage :** Supports up to 512GB TF cards.
- **Video Compression :** H.265 and H.264 optional.
- **Extended Recording :** Ultra-low power consumption and longer battery life: under 3500mAh battery provides 8 hours of continuous 4G or Wi-Fi live streaming and recording full-loading, 16 hours of standby time, and over 11 hours of recording.
- **Versatile Charging :** support Type-C and pogo pin for charging and transmission, pogo pin can be connected with 1 and 4 slots network docking station (WiB-D01/D04).
- **Replaceable Battery :** Swap without shutting down.
- **Connectivity :** Integrated 4G, Wi-Fi, GPS, ONVIF/RTSP/SRT/ Private P2P & EOC protocols for live streaming and monitoring.
- **Additional Features :** PTT intercom, SOS alarm, voice broadcasting.

Wi-Fi 4G Body Worn Camera WiB-B01

Specification

4G Body Worn Camera(BWC)

Model No.	WiB-B01/B02

Encoder SOC

Main SOC Chip	USA Ambarella S5L55m, 4 core arm and compression, Linux O.S.
Lens & Image Sensor (2 choice 1)	On the machine: - Field of View FOV 164° Wide-angle with 6 glasses lens - OV OS05A10 5M 1/2.7" CMOS sensor Extra wire camera: - Field of View FOV 140° Wide-angle with 4 glasses lens - 5M 1/2.7" CMOS sensor
Auxiliary Light	white LED light and IR light, for dark environment
IR Night Vision	Auto / Manual on/off IR light. Facial expressions can be seen clearly at 3 meters, and human body outlines can be seen clearly at 10 meters.

Video

Video Compression Format	H.264 AVC or H.265 HEVC (Can maximize save storage space)
Video Resolution / Frame Rate	- Encode 1 CBR for local storage 2688x1512P / 25fps，2560×1440P / 30fps 、2304×1296P / 30fps、1920×1080P / 30fps (Frames Per Second) - Encode 2 VBR for live streaming 1080P/25fps、720P/25fps、360P(640x360) /25fps
Video Processing	- Support video pre-recording and extension recording, motion detection functions - Support watermark more legal effect - Support car mode, overwrite recording - Support inputting up to 200 faces, automatically searches for the video file where the face is located and lists the file name (optional)
Snapshot	Support Snapshot photo as 64M（10752*6048）、16M（5376*3024）、4M（2688*1512）

Audio

Audio Compression	AAC / PCM

Wireless Communication

Real-time Streaming	- via built-in 4G & Wi-Fi (WiB-B01) - via built-in Wi-Fi (WiB-B02) It can connect to the Internet via 4G or Wi-Fi and transmit data to the ARF Halow mesh private wireless network.
Satellite positioning	Via built-in GPS
Server Platform Network Protocol	- Support ONVIF and RTSP protocol linking with 3rd party VMS software, and Private EOC & P2P protocol linking with WiB-RS01 EOC Server software and WiB-PS01 P2P Server software Provide SRT protocol for 4G/5G live streaming. - Secure Reliable Transport (SRT) is an video transport protocol designed for low-latency, secure, and reliable streaming over unpredictable networks like the public internet. It uses ARQ (Automatic Repeat reQuest) for error correction, supports AES encryption, and acts as a high-performance alternative to RTMP.

Wi-Fi 4G Body Worn Camera WiB-B01

Specification

Design

LCD Monitor	2” LEDC IPS full view screen，for display status and operation
Dimensions	83(H) mm x 33(T) mm x 6(W) mm
Weight	Body camera 157 g, Back clip 123g
Memory Storage	Micro SD(TF) card up to 512GB, default is 64GB
USB port	Type C interface for charging and transmission
Microphone	Built-in high-sensitivity microphone, high signal-to-noise ratio recording
Speaker	Built-in 105 dB speaker
Audio In/Out	Support external headset
Vibrator	Built-in
G-sensor	Built-in
SOS	Long press this button, the device will issue an alarm bell and sent to the server
Voice Warning feature	Automatic hourly time chime, operation sound prompts
Indicator LED	- Standby: Green LED Constant light - Record: Red LED Slow flash - Snapshot: Red LED Flash once - Record Audio: Orange LED Slow flashing light - Charging: Red & Green LED Constant light (Power ON), Red LED Constant light (Power OFF)
Button	Power, Mark, SOS, Light, Record Audio, Record Video, Snapshot, Menu
Pogo Pin	Below is the charging and transmission metal ejector, equipped with a dedicated 1 and 4 slots docking station
Accessories	- Shoulder, Back Clips, Magnetic quick-release clip - 1 and 4 slots network docking station (optional) - Used for charging and automatically downloading recorded video/audio files. Recorded 4k video files are automatically uploaded to the WiB-RS01 for backup storage every morning or manually at any time, and can be searched and played by client software anytime anywhere.

Software

Dedicate Software	Equipped with dedicated PC software, it features password protection and allows setting a password to prevent image deletion. Parameters of the WiB-B01/B02 can be configured via a Type-C connection running windows based setup software.

Powered By

Built-in lithium battery	built-in 3500 mAh lithium battery
Usage Time	Supports low power consumption mode, longer battery life: 1. power on, No record & No 4G transmit streaming：16 hours 2. power on, continuous recording： 11 hours 3. power on, continuous recording & 4G transmit streaming：8 hours
Charging Time	≤ 4 hours
Charging By	Type C and Pogo pin

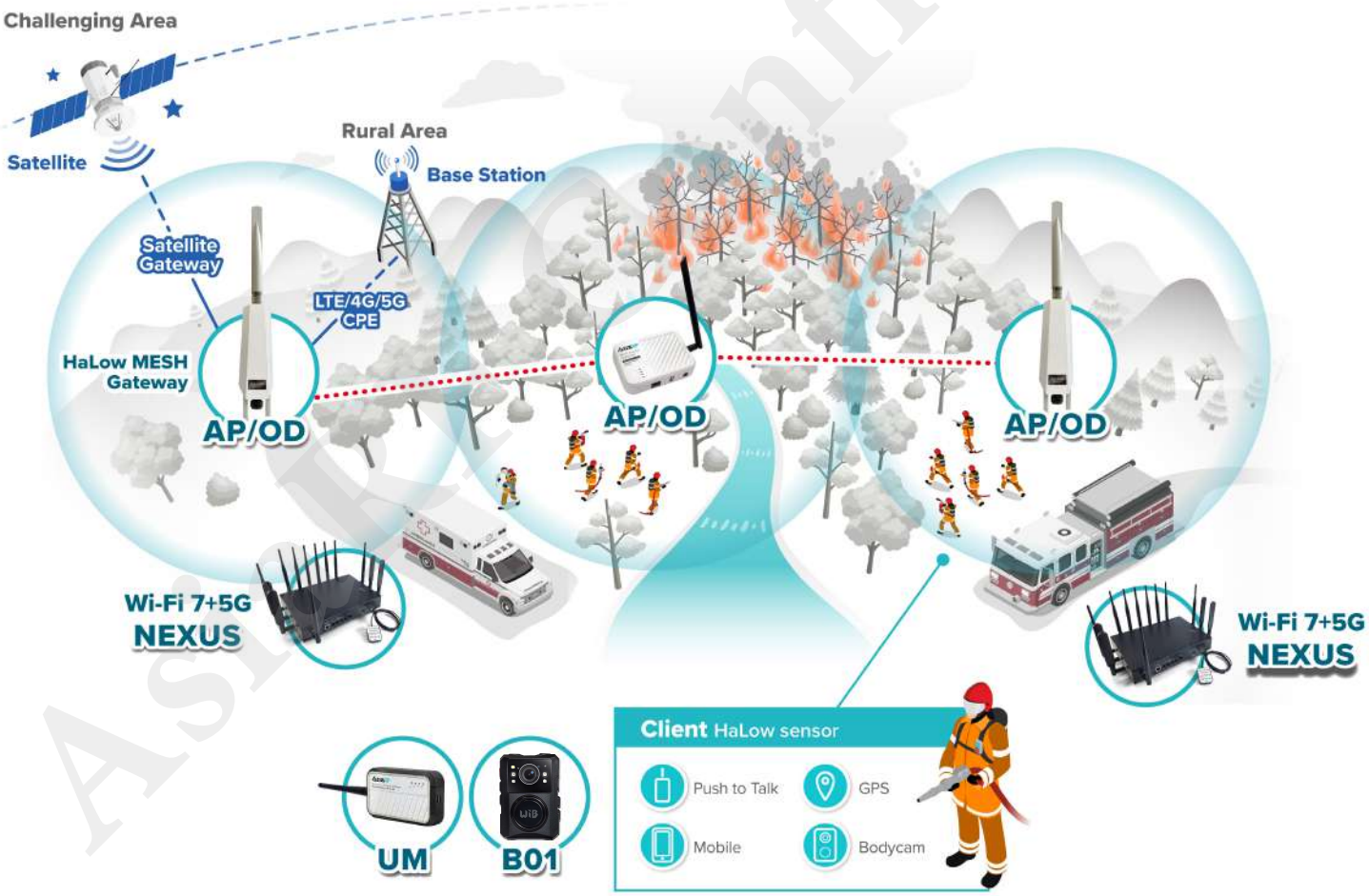
Wi-Fi 4G Body Worn Camera WiB-B01

Specification

Others

Waterproof and dustproof	IP67
DropTest	2 meters anti-drop
Case	The shell is made of industrial-grade ABS flame-retardant material, which is shock-proof, explosion-proof, sturdy, and shock-resistant.

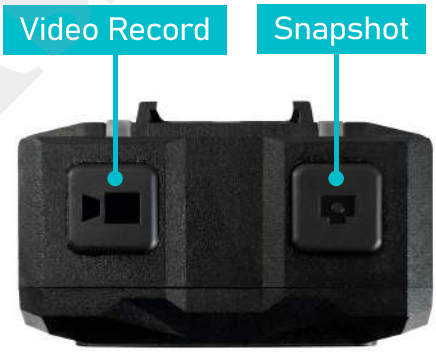
Application With HaLow



Via built in Wi-Fi live streaming, with our ARFHL-UM、ARFHL-AP、ARFHL-OD、ARFHL-Nexus, as a long-distance wireless mesh network is formed without 4G SIM card. Power on and go without any preset up the Server. And also allows the ARFHL-Nexus is connected to the Internet by inserting 5G SIM card, thus connecting the Intranet to the cluster-cloud servers.

Wi-Fi 4G Body Worn Camera WiB-B01

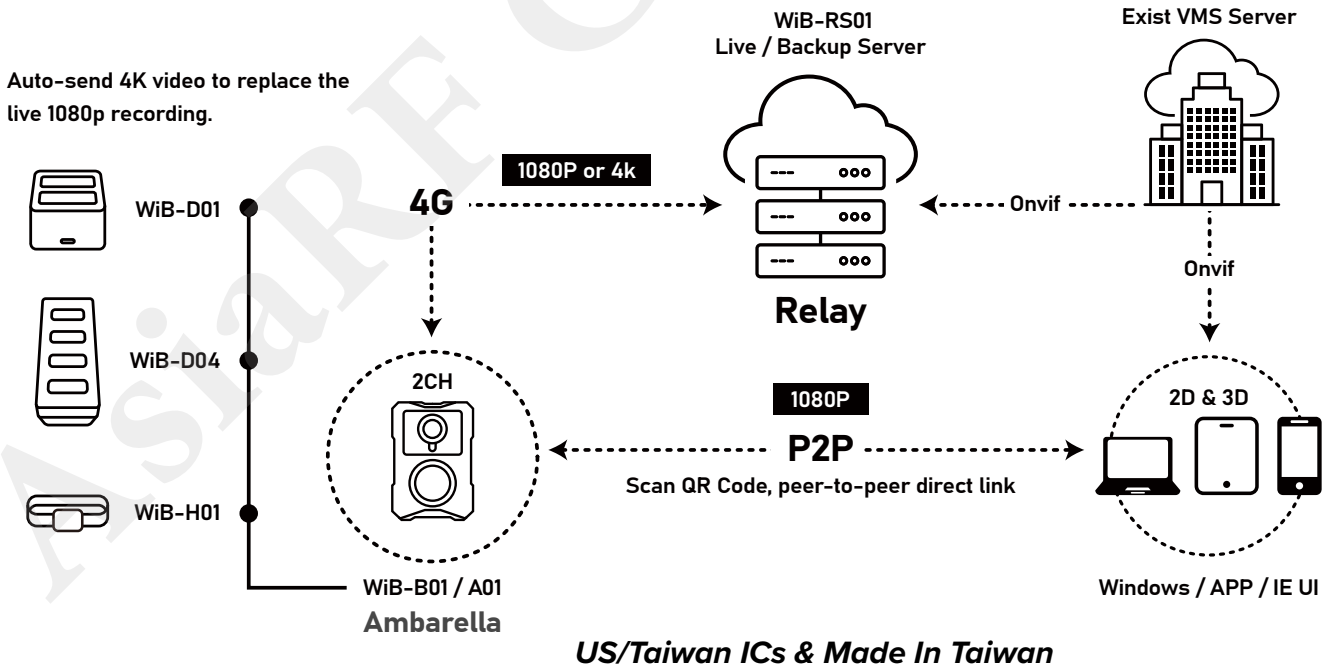
User Interface Instructions



Wi-Fi 4G Body Worn Camera WiB-B01

User Interface Instructions

WiB-4G AI BWC exclusive System Solutions



US/Taiwan ICs & Made In Taiwan

Real-time Function

- Supports ONVIF and RTSP protocols, seamlessly connecting to commercially VMS Software platforms
- Provides direct P2P (Peer to Peer) connection without server installation
- Provides pre-installed WiB-RS01 EOC (Emergency Operations Center) software platform connection

Wi-Fi 4G Body Worn Camera WiB-B01

Functional features

- Surveillance
- Listen
- SOS / Heartbeat
- Mark
- PTT
- Broadcast
- Map Location
- Record / Playback

Extra Functional features

- Dash Board
- Voice to Text
- P2P Server
- Relay Server
- TAK Grouping
- Dynamic Pairing

Remark

1. OnVif/RTSP only have real-time viewing/listening and recording/playback
2. P2P (WiB-PS01) only have real-time monitoring, listening, PTT calls, GPS location, SOS, and Markdown. And no group features
3. EOC (WiB-RS01) has all the above functional features