

Smart Safety Helmet

system	Android 12
CPU	8 Core ,2.0GHz
☆ communication technology	GSM/TD-SCDMA/WCDMA/CDMA2000/TDD-LTE/FDD-LTE 2G:GSM B2/B3/B5/B8 3G:TD-SCDMA B34/B39 WCDMA B1/B2/B5/B8 CDMA2000:BC0 4G:TDD-LTE B34/B38/B39/B40/B41 FDD-LTE B1/B3/B5/B7/B8/B17/B20
internal storage	Storage System: 2GB + 16GB
☆ External T Card	Supports up to 128 GB (over 32 GB requires high-speed memory cards from Samsung or SanDisk); features two Micro SD (TF) card slots*.
Gravity Sensing	support
Spiral gauge	support
Light Distance Sensing	Support (hat removal alarm)
barometer	support
RTK	Support (optional)
UWB	Support (optional)
Near-field Alert	support
camera	109° built-in high-definition wide-angle lens with industrial-grade 4 MP resolution
Laser Light	support
Hand flashlight light	3 W, irradiation distance ≥ 20 meters
key	Power switch button, intercom button, SOS button, volume adjustment buttons, flashlight light button, proximity alarm button
☆ wireless connections	WIFI network supporting 802.11b/g/n/ac protocols, dual-band (2.4 GHz/5 GHz), and Wi-Fi hotspot functionality.
PDA	Bluetooth: BT5.0
Interface	Type-c
☆ WIFI	WIFI 2.4G/5G supports 802.11 a/b/g/n/ac
fixed position	GPS + BeiDou
loudspeaker	2W

MIC	2 microphones
Headphone jack	3.5mm
pilot lamp	4 indicator lights, in red and green colors
SIM Card	Supports (NANO card, plug-and-play SIM slot)
communication	4G compatible with all networks
video call	Support (Upload in Real Time)
Video Resolution	Video resolution: 1080P, 720P, or 480P (available).
Video Format	Standard MP4; single-file recording duration: 5, 10, or 30 minutes (selectable in background mode); supports loop recording
Video Bitrate	H.264 Compression Coding
Overlapping Information	Video watermark: Time, location, and other information
take a picture	support
Real-time location tracking for personnel	support
Person Movement History Playback	support
Electronic Fence	support
Dangerous Area Alert	support
Voice Intercom	Supports remote voice intercom and trunked intercom; features built-in dual MIC inputs or Bluetooth headphone inputs
Information Broadcasting	Supports output via built-in speaker or Bluetooth headphones
TTS to Speech	support
Voice Compression Standards	AAC(ADPCM/G711.A/AMR)
Personnel Attendance	support
Hat removal as a warning sign	support
Fall Detection Alarm	support
Dangerous Area Alarm	support
SOS report to the police	support
Near-field alarm	support
Static Alarm	support
battery capacity	3.7V/4000mAh polymer battery, easy to replace and ready for immediate use; charges directly with a 5V power adapter.
working hours	10 hours (single battery, flashlight off)

Charging Time	≤3 hours (charging current: 2.0 A)
ambient temperature	High temperature: 50°C ± 2°C; Low temperature: -20°C ± 2°C
working temperature	-20°C-60°C
Storage Temperature	25°C
Humidity Requirements	From 10% RH to 90% RH, no condensation occurs.
Fall Protection Standards	2M
levels of protection	IP66 Rating
material quality	ABS material quality
size	307×240.5×168 mm (length×width×height) – Complies with the size specifications for safety helmets as stipulated in GB/T 2811-2019.
pigment	White, red, blue, yellow – customizable according to customer requirements (designed in accordance with GB/T 2811-2019)
Wearing Method	Integrated head-mounted design with no cable constraints, leaving both hands free.
fittings of a machine	Battery *1; Power adapter *1; Data cable *1;

