C4i communication

EXPERIENCE THE DIFFERENCE

YOUR SECURITY & SAFETY PRODUCTS

SWAT

CATALOG

Stereo Listening Through Wall System

Model: C4I-CW-IV

Description

This multi-function stereo listen through wall device is the most updated one in similar products nowadays, which can give listener the clearest audio information they are going to know. This is a special amplifier that will pick up the slightest noise through solid objects like a wall, so you can listen to what is happening on the other side. The contact microphone is a ceramic pin specially developed for converting vibration into audible noise. It has two powerful transducers together comprise an exceptional monitoring device to enable police, prison and so on.

Features

- High Detection sensitivity
- The threshold frequency,gain of the amplifier and microphone are adjustable
- The gain of the amplifier can be infinitely adjusted.
- People can monitor with channel 1, channel 2 separately or simultaneously.
- Built-in recording function, it can record automatically when insert the dedicated memory card.

Specification

Dimension	MCU(main control unit): 131×125×42mm; 41×18×15mm
Weight	Device total weight: 956g
	MCU(main control unit): 398g
	Earphone: 418g
	wires: 45g/piece
	Sensors: 25g/piece
Power Supply	Built-in 9V rechargeable battery
Battery Working Time	5hours without recording; 4hours with recording
Audio input	Left and right double track
Audio output	Left and right output simultaneously, or left and right output separately
Audio adjust	Gain adjustment, low frequency, high frequency filter adjustment and volume adjustment
Headphone output	3.5" standard interface
Recording output	Built-in recording module, real-time recording by USB external dedicated recording memory
Recording memory	16GB (continuous recording about 500 hours)
Product list	MCU(main control unit)×1 Sensors×2 Wires×2 Earphone×1 Outer box×1 Stereophonic noise reduction Recording memory×1 Users Guide×1

Multifunctional Stereo Listening System

Model： C4I-CW-V

Description

Multifunctional stereo audio system can receive and record analog sound signals (human voice, footsteps, other sounds). Due to the adoption of reflective low-noise DSP processing and amplification equipment, the signal is picked up by the left and right independent stereo sensors in the front end, and output after demodulation by the control processing unit in the back end, so the machine can detect very small sounds.

The system can pick up sound through building walls, ceilings, floors, etc. An external sensor is connected to an audio amplifier that provides tactile volume control on the left and right channels, as well as external USB flash drive recording. It is the leader of the same kind of products by providing accurate, sensitive and high-definition listening effect and recording year and time. It can be heard through buildings such as walls, roofs and floors, as in places where hostages are being held.

It can not only be used as the special forces rapid monitoring equipment, but also the military police forces, criminal investigation, technical investigation departments of the investigation and anti-reconnaissance of the necessary products.

Features

- Built-in powerful DSP sound algorithm processing, to ensure the best monitoring sound quality.
- Customized professional partition audio sensor, shock sensor transmission vibration through very low noise amplifier +DSP processing, even very weak sound signal can also be heard.
- With professional audio sensors, channel 1 or channel 2, or both listening.
- After DSP processing output, two channels can be simultaneously recorded.
- Monitoring mode: wired headset, wireless Bluetooth headset, recording.
- Professional and personalized touch + vibration operation.

Technical Parameters

Charging time	≤3 hours
Working temperature	-20℃~60℃
With replaceable rechargeable batteries	6 pcs of AAA batteries
Working time	≥3 hours
Product weight	≤220g
Size (length * width * height)	166mm*46mm*21.6mm
Appearance color/product material	mica ash + aluminum alloy
THD+N	≤1%
SNR	≤90dB
Monitoring frequency	50HZ~16KHZ
U disk interface	recording file storage
Audio output 3.5 interface	X1, recording file storage
Audio output 3.5 interface	(stereo) headphone output ≥16Ω
Audio input probe interface	X2
Display size	HD IPS 2.0 inch TFT display color screen

Portable Laser Monitoring System

Model: C4I-301

Description:

The system adopts innovative achievements such as self-development dual optical path laser technology, matrix detection technology and digital focusing technology. Taking ultra long distance, no preset and non-contact as the application environment, the system can realize the synchronous pickup of target sound information hundreds of meters away, and can effectively meet the acquisition needs of relevant departments for target sound information. It is an important means of sound information acquisition.

The system has obvious advantage in sub nano weak vibration measurement and weak return light detection ability, and has outstanding performance in target medium adaptability, working distance, window permeability and so on.

The system is highly integrated, easy to operate, easy to carry and fast to deploy.

Main Features:

- E-Optical mechanical integration design, easy to carry, to deploy and to hide.
- Rapid erection, simple operation, one key start-up and focusing, enter working state within 1 minute.
- Sound information can be obtained through multi-layers glass windows at a large angle.
- Paper, leather, cloth, plastic, metal and other materials can be used as target medium.
- Good sound reduction without distortion.
- A variety of noise reduction functions, with high sound recognition and reading comprehension.
- Multi-functional mobile operation terminal is wireless connected with the host, "viewing, aiming, listening, recording and transmitting" in one to realize remote control operation.
- Synchronous display of near and far scenes, timely switching and clear scenes.
- Far infrared laser with low power, safe and invisible to human eyes.
- Multi power supply modes, and the built-in battery design improves the flexibility of the system.
- With good night vision ability.

System Composition:

1. Main Host	**2.** Operation Terminal (Android System)
3. Headset	**4.** Tripod
5. High Precision Fine Tuning Platform	**6.** Adapter (Hand-held terminal)
7. Power Adapter (Host)	8. ABS case

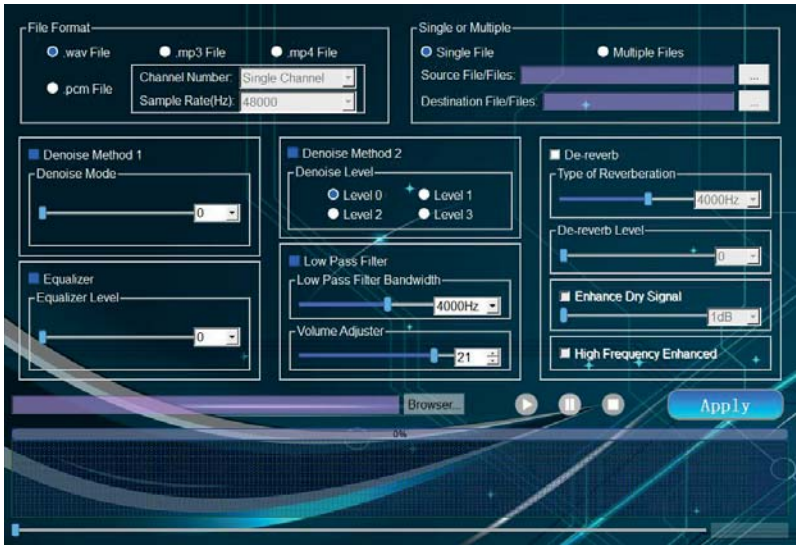
Technical Specification

Main Host Parameter	
Signal Processing Method	Dual channels, the separation of transmitting and receiving signals.
User Interface	Use of Handheld Terminal (Tablet) Remote Control (wired or wireless between Handheld Terminal and the Host) Wireless: Wi-Fi
Connectors/Ports	1x External Power Supply Connector (also to charge the built-in battery). 1x Data Communications Interface. 1x Wi-Fi Antenna Interface. 1x 3.5mm Audio Port.
Principle	Doppler
Laser type	Infrared (non-visible spectrum)
Working Distance	Minimum Effective Distance: 30 Maximum Effective Distance: 300
Auto focus distance	≥30m
Window permeability angle	≤±30°
Minimum sound intensity	≥60db
Transmission mode	Wireless and wired transmission
Dual vision lens	Wide-angle lens 25mm, Long-focus 300mm
Wave length	1550nm
Laser Power	Max 200mW
Built in a wide-angle colour CCD and 2 long-focus photo sensitivity≤1lux night vision CCDs	
Power supply	Built in battery: ≥5h
	AC220V: External: 220V AC/DC Adapter
Portability	Single people

Night vision function	Support
FOV switching function	Support
Range Finder	Support
Host Weight	≤12.5kg
Host Dimension	≤350×235×170mm
Operating Conditions	-10℃～+40℃ >90% relative humidity.
Storage Temperature	-15°C ~ +50 °C.

Operation Terminal Parameter	
Display	10.1 inch screen, Android system
Dual screen dual path HD video transmission, ±key volume adjust	
Auto focus +manual fine tuning	
High sensitivity signal strength feedback	
Auto target lock(auto left and right window match+four direction arrow manual fine tuning)	
Synchronous far and near vision display, real-time and fast switch	
Audio and video synchronous record, store, playback（pcm, mp4）	
AI noise reduction and voice enhancement choice	
Camera function	
Target distance display	

(Optional) Voice Noise Reduction Processing Software



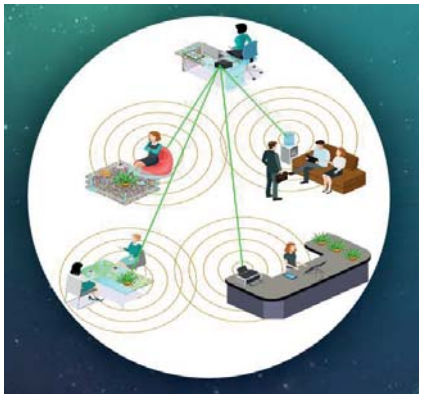
Support file formats	.wav、.mp3、.mp4、.pcm
Multi-file processing	Support
Noise Cancelling Mode	7
Noise reduction level	3
Reverb and signal processing	Support
Filters	2000-5000Hz
Audio enhancement	Support
Audition function	Support
Operating environment	Windows system

(Optional) Electro Tripod Head

Weight	≤5kg
Color	Black
Horizontal rotation angle	360°
Prone rotation angle	≥±30°
Rotation accuracy	≤0.02°
Maximum rotational speed	≥20°/min
Power supply	Host power supply
Control mode	Operation terminal APP
Input voltage	14~17V
Output power	Standby 3W, Instantaneous maximum 34W
Level of protection	IP65
Communication interface	UART/3.3V TTL
Physical interface for communication and power supply	Aviation plug

Portable Laser Monitoring System

Model: C4I-30



Description

The portable laser monitoring system can collect nano-scale vibration information (caused by sound) of different items by laser under the condition of long distance and noisy environment, and then restore clear sound by algorithm.

Main Features

Directional recording: Project the laser to the low impedance objects around the sound source, quickly establish the recording point, and listen to where you want. The pickup area can be flexibly changed by illuminating different objects

Anti-environmental noise function: A single recording point collects the sound in a small range of the surrounding area, which can effectively avoid collecting multiple sounds in a noisy environment.
Can effectively avoid collecting multiple sounds.

Long working distance: The directional recording device can project the laser to different items within a distance of 0-30 meters

Technical Specs

Product model	C4I-30
Pickup sound range	30 m
Main engine weight	1.4 kg
Operating temperature	-10℃~40℃
Power supply mode	AC220V/ Battery
Endurance time	4 h (under normal operating conditions)
Transmission mode	Wireless
Laser wavelength	1550nm
Recording mode	Audio and video synchronous recording
Pickup target	Whisper object
Camera sensor	5 mega pixel CMOS

Effective Medium

Best medium: carton, Paper box, Paper cup, Foam board,Plastic product Second medium:

KT billboard. Light color Nylon backpack

GSM PASSIVE INTERCEPTION SYSTEM

Overview

The system is a broadband fully passive GSM interception system. It is designed to record the entire traffic occurring between Base Transmitting Stations (BTS) and Mobile Stations (MS) located within the system's operational range. This means tens or even hundreds of simultaneous calls. The device allows user to scan, analyze, intercept, monitor or record short messages and phone calls from GSM mobiles, regardless of whether they are encrypted by A5/1 or A5/2 algorithm or not.

The system supports all GSM networks, including GSM 900Hz, DCS 1800Hz and EGSM. It is widely

used in national departments and agencies such as Police, Public Safety, Procuratorates, Intelligence, etc.,

which plays a significant role in safeguarding national security and maintaining stability.

Vehicular Active Interception System

Vehicular active interception system is a vehicular solution that focus on voice & SMS interception and Location for target mobile phone under LTE/WCDMA/GSM network. This solution adopts the vehicle-mounted form and active working mode.

When the target mobile phone is captured and registered to the system successfully, the system can be used to play role as Man-in-Middle and intercept communication content, call and SMS, of specified target. In addition, with individual positioning device, the precise positioning of the target can be implemented.

Active Portable Network Detection Device

The Active portable network detection device is a specialized tool designed for collecting IMSI information from mobile phone terminals operating on 4G LTE and 5G NR networks, as well as accurately locating specific targets. It finds extensive application in urban villages, buildings, entertainment and sports venues, traffic stations, and other relevant scenarios. This advanced device enables swift target acquisition and precise target positioning.

Portable Video Surveillance System

Model: C4I-330

Product introduction

Portable Video Surveillance System is designed for long-distance day and night law enforcement and evidence collection in the field. It is suitable for temporary deployment and control in the field, hidden crouching, mobile investigation, and day and night evidence collection. The product integrates photoelectric turntable, infrared thermal imaging, visible light camera, telephoto lens, laser ranging, electronic compass and BD Positioning. Multi-spectral technology is adopted, which combines passive and active, ranging and latitude and longitude positioning. At the same time of investigation and evidence collection, the target can be located and ranging. In combination with the back-end platform software, the functions of black and white list control, real-time AI identification, target locking, tracking and capturing can be realized, which can better assist the law enforcement departments in the investigation, control and emergency command.

Core functions

1. Comrade in arms of covert investigation

Photo and video recording, day and night; Clear imaging under all black zero illumination; Capture the license plate and record the first-hand image evidence.

2. Eyes of command center

Ultra far night detection and target recognition; Remote synchronous viewing of investigation scene dynamics; Multiple transmission modes to facilitate remote dispatching and command.

3. Assistant in drug control and smuggling

Mobile hotspot tracking, clear imaging; Early detection of jungle targets; The subject is invisible to the naked eye, which ensures the safety of the investigators.

4. A sharp weapon used by special police

Quick deployment and control of the scene;

Observe suspicious targets through doors, windows and windows;

Accurate positioning, orientation and ranging to win the enemy first.

Technical parameters

Detection distance	Daytime 5000m / nighttime 1500m / thermal imaging 1000m	
distance Identificatio	600m during the day / 600m at night / 300m for thermal imaging	
video camera	**Resolving power**	1920*1080P
	Optical zoom	50X
	Low illumination	0.0001Lux/F1.4
	Color mode	Integrated ICR dual filter day and night switching
Laser	**Wavelength**	808nm (Optional 940nm)
	Irradiation angle	1.2°~60° Continuous zoom
	Field of view linkage	Automatic zoom according to white light lens magnification, or manual control
Thermal imaging	**Detector type**	Vanadium oxide
	Resolving power	640*512
	Pixel size	17um
	Focal length	35mm
laser ranging	**Measuring distance**	1500m±1.5m
	Working mode	Single Ranging / continuous ranging
Location	BD / GPS dual-mode positioning	
Electronic compass	Real time true north orientation	
4G Wireless image transmission	Support	
Wireless WiFi	Support	
Local video	240g solid state drive, real-time recording	
PTZ	**Bearing mode**	Single arm suspension
	Horizontal rotation	360 ° operation, speed 60 ° / S
	Pitch rotation	± 40 ° operation, speed 20 ° / S
	Number of preset bits	255
	Positioning accuracy	0.02°
	Cruise	Support
	Scanning	Support

Equipment control mode	**Tablet - App**	Use WiFi link
	Mobile phone - App	Use 4G link
	Network cable - PC side software	Connect with cat 5 network cable
Size	**Width * height * length**	263*380*270mm
External interface	**Network cable**	Waterproof aerial plug
	Power Supply	Waterproof aerial plug
Power supply mode	Built in 10000mah, external expansion xxxmah	
Charging / working power supply	16.8V	
Overall weight	≤13KG	
Tripod rapid deployment	Support	
Protection level	IP66	

Long Range Color Night Vision Camera

Model: C4I-CSYS-III

Features

- It can be used in low-light environment at night as well as at daytime.
- The video it takes are full colour and high definition which can be as evidence presented to court.
- The color minimum illumination can reach 0.0001lux
- Variable-focus professional photographic lens ((60-600 mm) with large aperture
- 7 inches full HD touch screen, SSD hard disk
- Portable integrated design, built-in high density lithium battery pack (working time about 5 hours)
- It can recognize the face and car plate number 300-400m away
- **Laser flashlight and HD glasses (Optional)**

Specification

Technical Data	
Observation Range at Day/Night	Up to 1200m / 500m (It depends on the actual environment)
Recognition Range at Day/Night	Up to 600m / 300m (It depends on the actual environment)
The sensor type	CMOS
The video resolution	1080P (25fps)
The video signal	SDI
Color minimum illumination	0.0001LUX
Imaging Sensing	Full color in daytime & night illumination
Exposure mode	Shutter aperture
Fog and smoke elimination	Electronic passing through fog, software implementation
White Balance setting	Automatic white balance
Digital zoom	Maximum 16X
Wide dynamic range	120db
The screen size	IPS 7 inches widescreen LCD
The screen resolution	1920*1200
The screen brightness	1500nit
Operating mode	Touch screen control and remote control
Storage medium	2.5inch SSD hard disk, standard 1TB (maximum 2TB)
Video file format	MOV (10 bit code)
Working voltage	DC 10-13V
Power	Built-in Li-ion battery：11.1v12.8AH
The machine power consumption	30W
Working temperature	-10℃—50℃
Backup battery	11.1V 19.2AH, 6 hours
External power	AC 110-240V
Construction	Rugged compact housing made of aluminum
Weight	5.6 Kg without sight
Size	L454mm x W225mm x H152mm

Technical Specs Remote Control

- Language interface: **English**
- Power Supply: **Built-in lithium battery (8.4v / 500mah)**
- Working time: **Continuously >6 hours**
- Operation mode: **Button Control**
- Display: **1.3" OLED**
- Size: **110*55*25 (mm)**
- Weight: **115g**

Technical Specs Laser Flashlight

- Video Mode: **Black and White**
- Wavelength:**850±10nm**
- Voltage: **DC12V±10%**
- Weight: **500g**
- Size: **L160*W62*H100mm**

Technical Specs HD Glasses

- Screen : **Micro-OLED**
- The screen resolution:**1920x1080**
- Diopter adjustment: **Hyperopia 300°- Myopia 800°**
- Eyepiece Pupil adjustment:**58-74mm**

Component List

No	Name	Unit	Quantity
1	C4I-CSYS-III Integrated host	Set	1
2	Backup battery 11.1V 19.2AH	Set	1
3	Main Host charger (12.6v 2A)	Set	1
4	Spare battery cable (2.5 meter)	Set	1
5	Vehicle charging spring wire (7.5 meter)	Set	1
6	Infrared sight	Set	1
7	Straight screwdriver, hexagonal wrench	Set	1
8	Lens cleaning kit	Set	1
9	Remote control and Charger (8.4v 500mA)	Set	1
10	SSD USB3.0 Hard-disk box	Set	1
11	Tripod with carrying bag	Set	1
12	User manual	Set	1
13	ABS case	Set	1

Handheld Digital Night Vision

Model: C4I-G-MCN

Product Introduction:

This device is an excellent digital night vision device. Using advanced ultra-low illumination image sensor and image processing technology, it can truly restore image color and provide high definition image. Enable the user to see the target clearly. At the same time, the high-resolution display can present more details and enhance the observation effect. With photography, video and other functions, can meet the outdoor patrol in the law enforcement, forensics work.

The night vision equipment mainly converts the analog digital circuit into digital signal by hitting the amplified electron stream to the special low-light CMOS, and then carries out scientific algorithm noise reduction through the professional processor to form a high-resolution full-color picture, and the imaging effect is almost no difference compared with the day. The device is not afraid of bright light and can look directly at the sun. At the same time, it also breaks the limitations of traditional low-light night vision, and will not affect the imaging effect as time goes on, resulting in the aging of the device, and there is no life limit.

Features:

1, light weight, small size, easy to operate, weight only 417g.

2, can be handheld, head wear use. Suitable for traditional helmet

mounting bracket. 3, color HD images

4, ultra-low illumination sensor, with infrared light

5, wide dynamic light suppression, not afraid of strong light influence

6, support HDMI HD output

7, with photography, video function

8, 1 inch large target surface sensor, ultra-low illumination response, starlight full color night vision.

Technical Parameters:

OLED display screen	**Size**	0.4inch
	Resolution Ratio	1027*768
	Color mode	Color, black and white, brown, green
CMOS Image sensor	**Illuminance (minimum)**	0.0001Lux
	Resolution ratio	1296*816
	Pixel	12μm
Objective lens	**Focal length**	27mm
	Lens f-number	1.2
Ocular lens	**Focal length**	27mm
	Exit pupil diameter	6mm
	Distance of exit pupil	15mm
	Systematical distortion	＜1%
	Field of view	40°±2°
	Focusing system	25 cm ~∞
Fill light	**Infrared light Wavelength**	850nm
	Infrared lamp power	1W
Power	**Working voltage**	3.7V

Consumption	**Module Power Consumption**	1.8W
	Power types	1 18650 battery and external TYPE-C
	Working hours	Do not turn on the infrared light about 6.5 hours, turn on the infrared light about 4.5 hours
Other	**Product material**	Aviation aluminum alloy, silicone
	Size of Host Machine	165*78*48mm
	Unit weight (without battery)	417g
	Battery Weight	35g
	Work environment	Temperature -20℃ -40 ℃
	IP Grade	IP65

Multi-functional Binocular

Model：C4I- IR213Z

1.Product introduction

C4I- IR213Z integrates infrared, low-light, visible light, and laser capabilities into one compact intelligent observation device. It features a built-in composite positioning module, high-precision digital electronic compass, long-range laser ranging, and all-in-one meteorological sensor module. It also has multi-spectral fusion functionality, suitable for all-weather target positioning, reconnaissance, guidance,optional ballistic calculation, and can capture photos and videos. With rich interfaces, it can be integrated into battlefield IoT systems.

2. Application

Battlefield reconnaissance, ballistic calculation, surrounding mapping, alert and deterrence, etc.




3. Features

1.8-in-1 Precision Target Reconnaissance & Positioning：

Self-positioning horizontal accuracy ≤ ±10m

Target positioning accuracy ≤ ±20m

2.Multi-munition Ballistic Calculation（Optional）：

Measure meteorological parameters such as temperature, humidity, and atmospheric pressure. Including 267 types of ballistic parameters (Customizable)

Adjustable for wind deflection

3.Easy to Operate：

Interface functionality operation guide Human-machine ergonomic design

4.Lightweight：

Compact size: 235mm*220mm*110mm

Lightweight: 2.3kg(with battery)

5.Fast & Stable：

Non-cooled, rapid startup ≤30s

Working Temperature: -40℃ ~ +60℃IP67 protection level

4. Specification

Image Mode	
Full-color visible light	
Thermal Image	
Low-light	
Infrared low-light fusion (Including highlighting, edge, blending)	
Visible Light	
Resolution	1920*1080
FOV	44°*34°~2.4°*1.8°

Working illuminance	≥0.1Lx（Black and white） ≥1.0Lx（Full color）
Thermal Image	
Resolution	640*512
Pixel Pitch	12μm
FOV	7.32°*5.86°
Low-light	
Resolution	800*600 8μm
Pixel Pitch	7.32°*5.86°
FOV	800*600 8μm
Laser Range finding	
Laser wavelength	1535nm
Measurement range	30m-6Km（Vehicle）
Positioning Component	
Positioning mode	Multi-frequency BeiDou
Coordinate system	GCS/ Gauss-Kruger/ UTM/ MGRS
Intelligent Automatic Correction of Magnetic Declination	
Automatic identification of local magnetic declination (at the specified location), eliminating the need for manual correction.	
Electronic Compass	

Azimuth accuracy	0.5°（RMS）
Pitch angle accuracy	0.1°（RMS）
Laser Indication	
Invisible laser	850nm 50mw
Visible laser	520nm 30mw
Display	
1080p FHP OLED	
Working Time	
Continuous working time ≥9 hours	

Range measurement interface: white hot mode

Main interface: visible light mode

Four-Eye Panoramic Night Vision Device

MODEL：C4I-KN-3

Product Introduction:

This product can provide users with more information in night vision environments and can quickly navigate through the OODA loop (observation, orientation, decision-making, action). The most prominent feature is the presence of four independent image intensifier tubes, with four independent objective lenses arranged in a panoramic direction.The two lenses in the middle point forward like traditional binocular night vision, providing users with more depth perception, while the other two lenses point slightly outward from the center to increase peripheral visibility. The two pipes on the right and the two pipes on the left are fused and stitched together at the eyepiece. The user sees two central images overlapping with two outer images, resulting in an unprecedented 120 ° field of view.

The left and right imaging systems are mounted side-by-side on the support frame and suspended on the night vision helmet mount, providing users with complete adjustment options. It can also be easily removed from the stand as a standalone handheld night vision observation device, and has a handwheel system to adjust the eye spacing of the left and right visual system.

Technical Parameters:

Structural mode	Four-eyes panoramic night vision
Power supply mode	Lithium battery
Battery voltage range	2.8-4.2V
Installation mode	Headwear (standard American helmet connector)
Control mode	ON/IR/AUTO
Overall power consumption	<0.2W
Battery capacity	700-2800maH
Battery life	30-80H
Optical magnification	1X
Full field of view	120x50 +/-2 degree
Parallelism of optical axis	<0.1degree
Image intensifier	Super second generation
Luminance gain	automatic
Optical aperture	F1.2 22.5mm
Optical MTF	120LP/mm
Optical distortion	<1%
Relative illumination	>75%
Optical coating	Ultra-wideband multilayer optical anti-reflection film
Focusing range	250mm-∞
Focusing mode	Manual operation
Eyepiece exit pupil distance	36
Eyepiece exit pupil aperture	7mm
Range of visibility	+2~-2

Eye spacing adjustment method	Arbitrary continuous adjustable
Eye distance adjustment range	58-72mm
Interocular locking mode	Manual locking
Auxiliary light source	850nm 20mW
Applicable temperature	-40--+55℃
Humidity range	5%-95%
Waterproof class	IP65/IP67
Product size	245x129x90
Product weight (no battery)	912g

Configuration list:

night vision device, safety box, mirror wiping cloth, instruction manual, warranty card; Soft helmet (optional), triple lens (optional), dump truck (optional), helmet (optional).

Multi-functional Thermal Imaging Telescope

Model: C4I-IR216Z

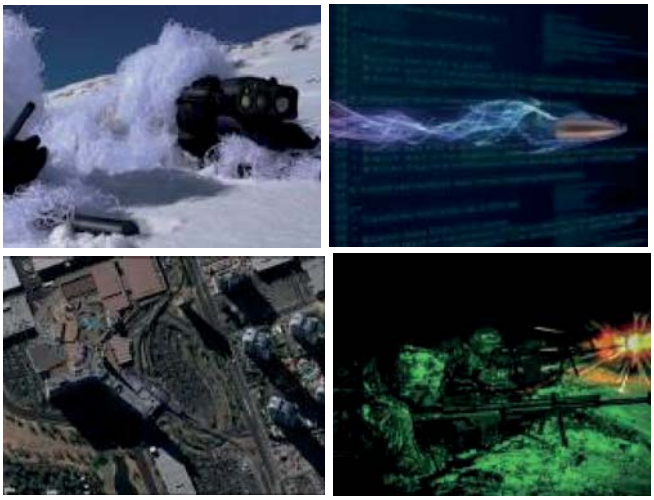
Product Introduction:

IR105 is a lightweight thermal imaging intelligent observation device equipped with a composite positioning module, digital electronic compass, laser range finder, laser indicator, and multi-functional meteorological sensing module. It can be used for all-weather target localization, reconnaissance, indication, ballistic calculation, and can also take photos and videos. It features abundant interfaces for building battlefield IoT (Internet of Things) capabilities.

Application:

Battlefield reconnaissance, ballistic calculation, surrounding mapping, alert

and deterrence, etc.



Features:

3-in-1 Precision Target Reconnaissance & Positioning
Self-positioning horizontal accuracy ≤±5m;
Target positioning accuracy ≤±20m.
Multi-munition Ballistic Calculation
Measure meteorological parameters such as temperature, humidity, and atmospheric pressure;
Including 267 types of ballistic parameters (Customizable);
Adjustable for wind deflection.
Easy to Operate
Interface functionality operation guide;
Human-machine ergonomic design.
Lightweight
Compact size: 185mm*165mm*75mm;
Lightweight: 1.4kg (with battery).
Fast & Stable
Non-cooled, rapid startup ≤30s;
Working Temperature: -40℃ ~ +60℃,
IP67 protection level.

Specification:

Thermal Image	Resolution	640*512
	Pixel Pitch	12μm
	FOV	8.8°*7.0°

Laser Range Finding	Laser wave length	905nm
	Measurement range	10m-1.5Km
Positioning mode	BeiDou/ GPS/ GLONASS multi-mode	
Electronic Compass	Azimuth accuracy	1° (RMS)
	Pitch/Roll angle accuracy	0.5° (RMS)
Visible laser	520nm 30mw	
Display	1080p FHP OLED	
Storage capacity	10,000 images or 4 hours of video	
Working Time	Continuous working time ≥ 8 hours ,@25℃	
External Interfaces	DC/USB/PAL/RS232	
	Wi-Fi image transmission and control	
Special Features	Target positioning	
	Target guidance	
	Multi-target relative ranging	
	Able to record audio/video	
	Unit conversion	
	Unit conversion	
	Expandable Picatinny rail	
	Ballistic Calculation (Including wind deflection calculation)	
	360° Target Locking	
	Embedded Satellite Map	
	4G Transmission	

Main interface: Infrared white hot mode

Range measurement interface: Infrared white hot mode

Binocular Handheld Laser Rangefinder

Product Introduction

The binocular handheld laser rangefinder is a new generation of military telescope style rangefinder that integrates modern electronic, optical, and laser technologies to accurately measure distance. It has the characteristics of small size, light weight, long measuring range, easy operation, low ranging error, good sealing performance, and high reliability. It is equipped with standard RS232 serial interface and mechanical interface, which can easily achieve signal transmission and determine the target orientation when used with angle measuring instruments.

Features

Remote measurement without cooperative targets;

Nd: YAG laser, wavelength 1.064 microns

The measurement accuracy is 0.5 meters;

One laser can measure two targets;

Type B: Additional electronic compass

Cross line dividing line backlight illumination, convenient for

night aiming; 81 target data storage and retrieval;

Main technical parameters

Distance measurement performance	
Minimum measuring range	40 meters
Effective range	not less than 6 kilometers, 8 kilometers, 10 kilometers, 12 kilometers (for square or circular flat targets with an area of not less than 3x4 meters under standard visibility meteorological conditions).
Distance measurement accuracy	± 0.5 meters (mean square error)
Distance resolution	not greater than 30 meters
Repetition frequency	20 times/minute, continuous operation; 30 times/minute in emergency situations, tested for 1 minute, rested for 1 minute, able to work continuously.
Distance gating range	continuously adjustable from 30 meters to 5000 meters, with steps of 10 meters or 100 meters, and its accurate data displayed on the monitor.
Accuracy rate	not less than 98%
B-type instrument	electronic compass range, 0-360 degrees, accuracy of 1 degree.
Telescope Optical Performance	
Visual magnification	7 times
Field of view	6.5 degrees
Exit pupil diameter	5 mm
Exit pupil distance	20.3mm
Resolution	7.79s

Main Performance Characteristics	
Power Supply	Use two 18650 2500mAh, 3.7V rechargeable lithium batteries. After the batteries are fully charged, measure the distance at room temperature (25 ± 5 ° C) for more than 3000 times. During the use of the rangefinder, there is a "battery symbol" on the display indicating the battery level. When the battery level is low, the battery should be charged immediately.
Data interface	Standard RS232 serial interface
Working temperature	-40~+65 ° C
Maximum relative humidity	95~98%
The host structure adopts a sealed waterproof design and anti vibration design	
Dimensions	162x156x66mm
Weight	1kg

Surveillance Ball

Description

The Surveillance ball is a system specially designed for wireless real-time intelligence. The sensor is round in shape like a ball. It is rugged enough to survive a hit or knock and can be thrown to distant area where might be dangerous. Then it transmits real-time video and audio to monitor simultaneously. Operator is able to observe what is going on in hidden place without being at dangerous place. Thus, when you have to take measures in a building, basement, cave, tunnel or lane, risk is reduced. This system is applicable to policeman, military policeman and special operation force to take anti-terrorism action or maintain surveillance in city, countryside or outdoors.

This device is fitted with some NIR-LED, so the operator can search and monitor objects in dark environment.

Technical Specification

Scanning Mode	360° Rotating Automatically; Rotating Speed ≧4circles/m
	360° Rotating by Manual
Camera	≧1/3'', Color video
Angle of Field	≧52°
Audio/Microphone Sensitivity	≦-3dB, ≧8meters
Signal to Noise Ratio	≧60dB
Light Source	NIR-LEDS
Light Source Distance	≧7m
Audio/Video Output	Wireless
Data Transmission	Wireless
Diameter of Ball	85-90mm
Weight of Ball	580-650gram
Display Resolution	≧1024*768, Colorful
Display	≧10 inches TFT LCD
Battery	≧3550mAh, Lithium Battery
Continuous Working Time	≧8hours
Weight of Display	≦1.6kg (without antenna)
Remote Distance	30m

Monocular Night Vision

Features

- High resolution Gen 2+ image intensive tube
- IP 65 waterproof
- Multi-layer Optical coating
- Rugged and lightweight
- Built-in IR illuminator
- Automatic anti-glare protection system
- Automatic shut-off system when flipped up
- Fully adjustable head mount
- Weather and fog resistant
- Low battery indicator

Technical Data

Image Intensifier Tube	2+ generation
Resolution (lp/mm)	58-64
Observe distance	250m
Protection of optical system against fogging	Gas-filling
Protection of anti-flame	Full Aluminum Alloy
Magnification	1X/3X
Lens adjust range (m)	0.25--∞
Eye relief (mm)	20
Exit pupil (mm)	25
Diopter adjustment range (deg)	+5 ~ -5
Resistance to dynamic (blows) loads (g)	300
Power supply	1 lithium battery CR123
Continuous operation time (h)	20 with IR / 40 without IR
Power supply voltage (v)	2.6-4.2V
Dimension (mm)	L115*W69*H54
Weight with the power supply (g)	310
MTTF (hours)	10,000
Field of view (deg)	40
Lens system	F1.2, 25mm
Waterproof Level	IP65
Rotary bracket	Detachable
Installation method of eyepiece	Rolling the monocle up and changing it from left eye to right eye
Operating environment	-30~50 ℃
Warranty service life	1 year

Dual Goggle Night Vision

Features

- High resolution Gen 2+ dual image tube system
- IP 65 waterproof
- Multi-layer Optical coating
- Rugged and lightweight
- Built-in IR illuminator
- Automatic anti-glare protection system
- Automatic shut-off system when flipped up
- Fully adjustable head mount
- Weather and fog resistant
- Low battery indicator

Specification

Image intensifier tube	2+ generation
Resolution (lp/mm)	58-64
Inter pupillary distance (mm)	50-72
Observation Brightness Control	Auto
Observe distance	300m
Identify distance	250m
Protection of optical system against fogging	Gas-filling
Magnification	1X/3X
Lens adjust range (m)	0.25--∞
Eye relief(mm)	20
Exit pupil(mm)	25
Diopter adjustment range	±5
Resistance to dynamic(blows) loads(g)	300
Weight of the attachment to weapon(g)	150
Power supply	2 AA batteries
Continuous operation time (hours)	40 with IR / 80 without IR
Dimension (mm)	L130*W130*H65
Weight with the power supply (g)	400
MTTF (hours)	10,000
Field of view (deg)	40
Lens system	F1.2, 25mm
Waterproof Level	IP65
Operating environment	-30~50 ℃
Rotary bracket	Detachable
Installation method of eyepiece	Rolling the monocle up
Warranty service life	1 year

Binocular Night Vision

Features

- High resolution Gen 2+ dual image tube system
- IP 65 waterproof
- Multi-layer Optical coating
- Rugged and lightweight
- Built-in IR illuminator
- Automatic anti-glare protection system
- Automatic shut-off system when flipped up
- Fully adjustable head mount
- Weather and fog resistant
- Low battery indicator

Specification

Image intensifier tube	2+ generation
Resolution (lp/mm)	58-64
Interpupillary distance (mm)	50-72
Observation Brightness Control	Auto
Observe distance	300m
Identify distance	250m
Protection of optical system against fogging	Gas-filling
Magnification	1X/3X
Lens adjust range (m)	0.25--∞
Eye relief (mm)	20
Exit pupil (mm)	25
Diopter adjustment range (deg)	+5 ~ -5
Resistance to dynamic (blows) loads (g)	300
Weight of the attachment to weapon (g)	150
Power supply	1 lithium battery CR123
Continuous operation time (h)	20with IR / 40 without IR
Power supply voltage (v)	2.6-4.2
Dimension (mm)	L115*W69*H54
Weight with battery (g)	675
MTTF (hours)	10,000
Field of view (deg)	40
Lens system	F1.2, 25mm
Operating environment	-30~50 ℃
Waterproof Level	IP65
Installation method of eyepiece	Rolling the monocle up
Rotary bracket	Detachable
Warranty service life	1 year

Enhanced Night Vision Goggle

Model: C4I-JY-F

1. Product Description

C4I-JY-F Enhanced Night Vision Goggle combines I² and thermal imaging technologies to make up for the shortcomings of the former in detecting targets, suitable for a wider range of applications. With corresponding sighting tools, the field of vision and the division of the sighting tool can be precisely matched to the image of C4I-JY-F, so as to realize the fast capture and concealed shooting of the target.

2. Product Features

- Rapid Target Acquisition
- Multiple Fusion Modes Switchable
- 12μm Thermal Imaging
- Low Power Consumption
- Combat Information Input（HUD）
- Light Weight（360g）
- Extra Large Exit Pupil Diameter（15mm）

3.Technical Parameters

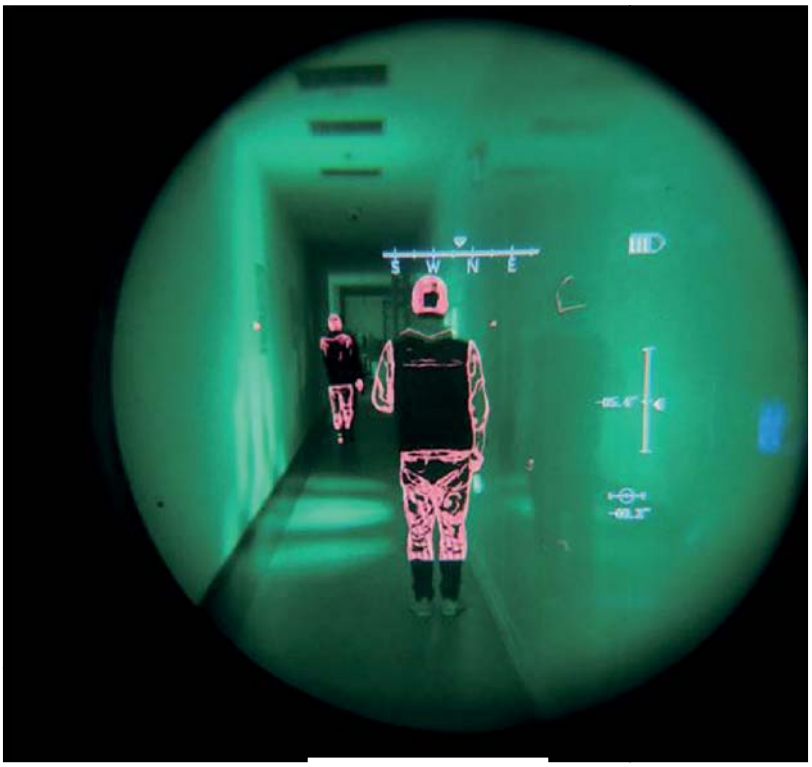
Product Specifications	
Visual	1×
Exit Pupil	15mm
Exit Pupil	25mm
Dioptrer	-3.5~+2.5
Display Mode	Black-hot/ White-hot/ Orange-hot, Outline, Target highlight, Breathing alert
Compass	Azimuth/ Pitch angle/ Inclination angle
Battery Life（I²	≥60h
Battery Life	≥8h
Weight	≤360g (Without Battery Pack)
Operating Temperature	-40℃ ~ +60℃
I² Specifications	
I² Focal Length	25mm
Focal Length	0.25m ~ +∞
I² FOV	40°
Gain	Support
Infrared Specifications	
Detector	12μm 640×512
IR Focal Length	16mm
Infrared FOV	26.9°×20.9°
Gain	Support
Control	Support

Operating Distance		
Human Target 1.7m×0.5m	Identification	200m
	Recognition	400m
	Detection	1500m
Vehicle Target 2.3m×2.3m	Identification	500m
	Recognition	1000m
	Detection	3000m

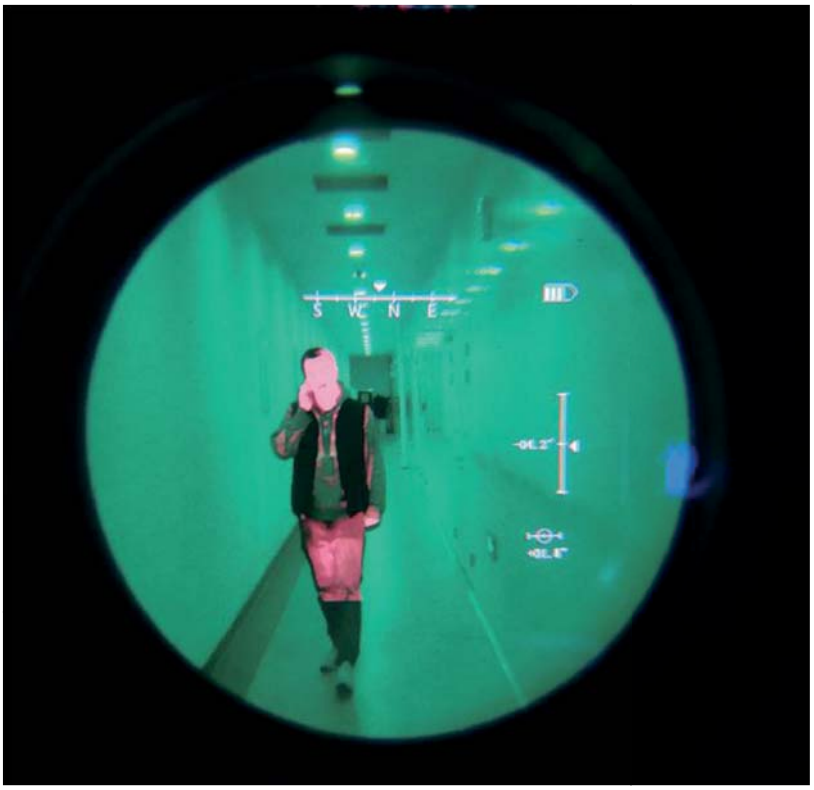
4. Product Structure Diagram

5.View Inside

Picture in Picture



Outline Mode



Infrared Mode

Five Optical Channels Multi-function Binocular

Model: C4I-TM-B

1.Product Description

C4I-TM-B is a small intelligent observation device integrating infrared, low-light, visible light and laser. It has built-in location module, digital magnetic compass, and laser rangefinder. With image fusion function, it can be used for day and night observation and target search. The images and videos can be taken, and the information can be uploaded in time. It is comfortable and portable to use.

2.Product Features

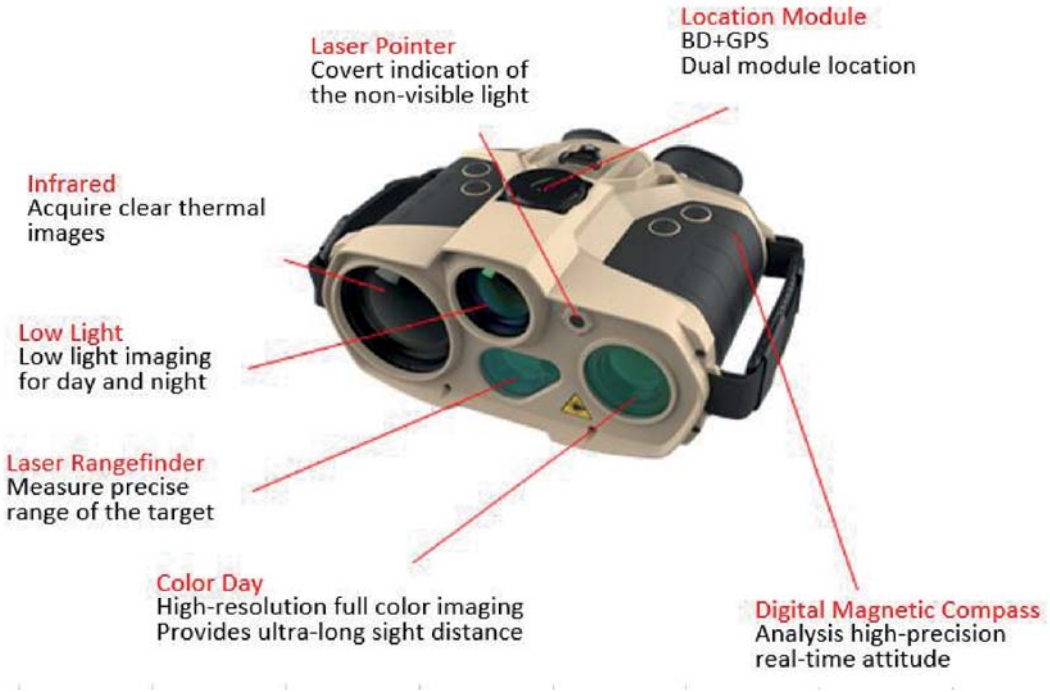
- Five Optical Channels
- Image Fusion
- Multiple Functions
- Intelligent
- Light weight
- Long battery life
- IP 67 protection level
- High Reliability

3. Technical Parameters

Item	Infrared Channel	Low Light Channel	TV Channel
Resolution	640x512, 12μm	750x600, 8μm	2400x1920, 2.7μm
Spectral Band	8~14μm	0.4~1.1μm	0.4~0.63μm
FOV	6.1°x4.8°	6.8°x5.5°	4.6°x3.7°
Laser Rangefinder	Eye safe: 1535nm Max Measuring Range: ≥6km Measuring Accuracy: 2m		
Location Module	Location Mode: BD+GPS Horizontal Location Accuracy (CEP): 5m Elevation Location Accuracy (PE): 10m		
Digital Magnetic Compass	Azimuth Measurement Range: 0°~360° Azimuth Measurement Accuracy: 0.5° (RMS) Pitch Angle Measurement Range: -90°~+90° Pitch Angle Measurement Accuracy: 0.4° (RMS) Inclination Angle Measurement Range: -180°~+180° Inclination Angle Measurement Accuracy: 0.5° (RMS)		
Laser Pointer	Wavelenght: 830 nm Power: 5mW Security level: Class IIIA		
Display	1280X1024 OLED		
Storage	10000 JPG&4h AVI		
Ocular Lens Diopter	-4~+4		
Weight	≤2.1Kg(with Battery)		
Operating Time	≥8h		
Dimension	198x210x105mm		
Interface	External Power In/USB/PAL/RS232 HDMI WIFI		
Operating Temperature	-40°C ~+50°C		
Storage Temperature	-55°C ~+70°C		
Protection Level	IP67		

Operating Distance			
		Infrared Mode	**TV Mode**
Human Target 1.7mx0.5	Identification	0.85km	3.00km
	Recognition	1.70km	4.50km
	Detection	5.00km	10.07km
Vehicle Target 2.3mx2.3	Identification	1.20km	4.00km
	Recognition	2.40km	6.00km
	Detection	6.00km	12.20km

4.Product Structure Diagram



5.View Inside

Observation under fog:

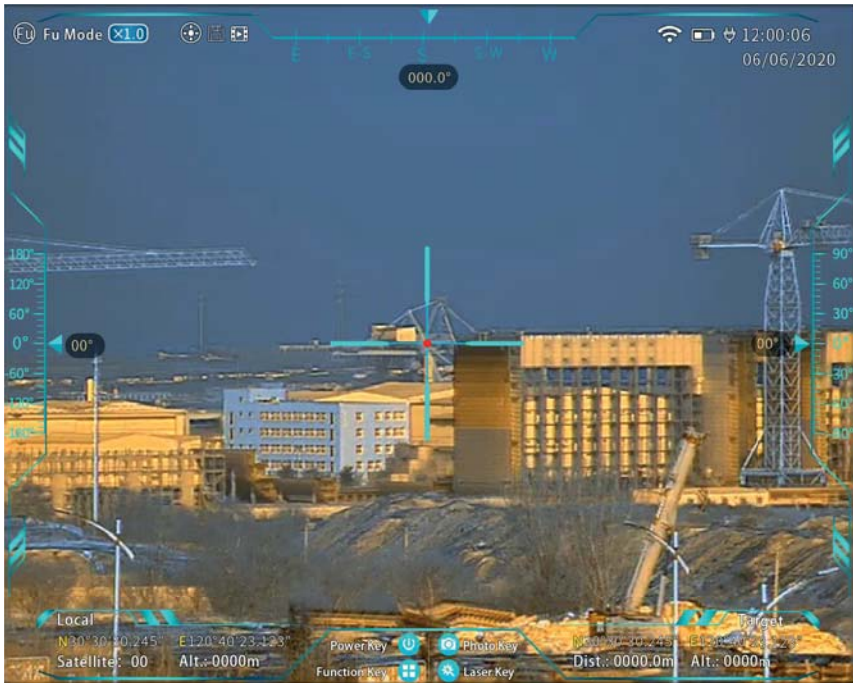
Infrared Mode | Low Light Model | Fusion Mode | Daylight Mode

Observation Mode:

TV Mode

Infrared Mode

Low Light Mode



Fusion Mode

Handheld Night-vision Evidence Collector

Model:C4I-TW100

Description

Handheld night-vision evidence collector is a new-generation product developed and designed for law enforcement officers to long-distance monitoring and evidence collection at day and night. Highly integrated with GPL laser lighting (no red light) patented technology, ultra-high definition imaging technology, license plate intelligent recognition technology, long-distance encrypted transmission technology and other technologies, it can be used for night investigation, search and evidence collection, and hidden video recording. It has the features of portability, intelligent operation, long working distance and high practical applicability.

Technical Parameters

Model	**C4I-TW100**	
Operating range	**Daytime: 2000m/nighttime: 600m**	
Identification distance	**Daytime: 600m/ nighttime: 300m**	
Display	**5-inch 16:9 ISP screen, resolution ratio: 1920*1080;**	
Power consumption	**≤20W;**	
Focal length of lens	**Sensor type**	**2 megapixel, 1/2.8" progressive scanning CMOS;**
	Focal length	**f=4.5-160mm, optical zoom and intelligent autofocus;**
	Magnification times	**35 times;**
	Color pattern	**Integrated ICR dual-optical filter switching between daytime and nighttime;**
	Resolution ratio	**1920*1080;**
	Minimum illumination	**0.0001lux;**

Laser illuminator	Power	4W;
	Wave length	940nm (860nm optional);
	Illumination angle	2.2-62° continuously adjustable, digital drive control technology;
	Control	Automatic zoom according to the lens magnification, manual control is permitted
Environmental index	Operating temperature	-40℃-+60℃;
	Storage temperature	-45℃-+70℃;
	Vibration/shock	In line with GA/T 1127-2013 technical requirements;
Interface	Video	RJ45 and Video;
	Audio	Audio input, audio output;
	USB	USB3.0;
	Power	16.8V;
Storage unit	Video format	AVI and DAV;
	Image format	JPEG;
	Storage media	240G Large-capacity solid state drive (expandable to 2T);
Operation mode	Short range	Host button;
	Remote	Remote control, electronic equipment connected to WiFi, 4G;
Shell	Material	Aluminum alloy (integrated mold);
	Structure	Ergonomic design, tilt screen, SLR handle, buttons;
	Protection class	IP66;
Accessories	Carbon fiber tripod;	
	3D manual console;	
	AC220V to DC16.8V charger;	
	20m remote control	
	USB-HUB4-PORT	
	Network cable	
	Audio and video cable	
Dimension (L×W×H)	200mm×182mm×96mm;	
Host weight	2.35kg;	
Battery capacity	5000mAh;	
Continuous working period	3 hours (Laser ON); 8 hours (Laser OFF)	
Built-in module	WiFi and 4G module;	

Features:

Hidden photographing and video recording , Long detection range , One-key capture of license plate, Intelligent operation , Mass memory , Portable design,Hidden reconnaissance,clear evidence collection, emergency command and efficient case handling!

Design Highlights

1. Tilt view function

The product screen uses a novel tilt scree n design. Compared with the traditional vertical screen design, it is more ergonomic, and the human eye can more

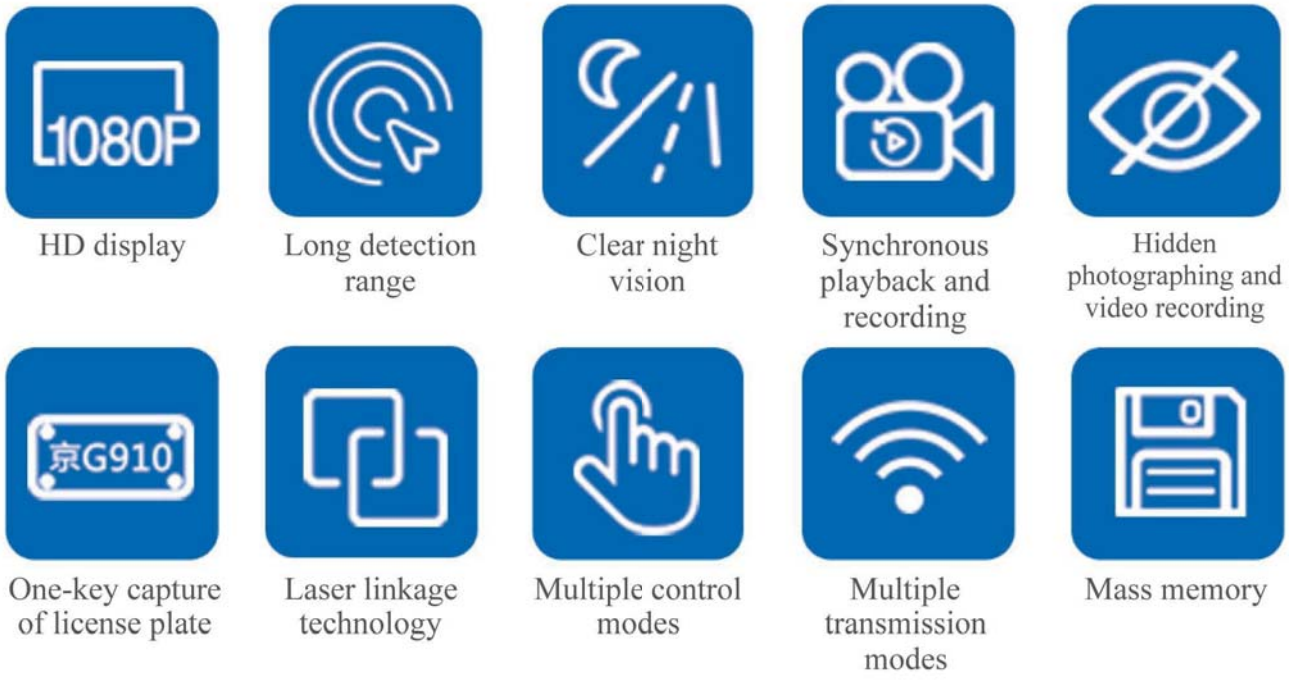
2. Stylish appearance

The product is beautiful and tough, ergonomically designed, light and easy to carry, with reasonable

3. Grab handle function

The design of the product handle and the SLR camer a handl eare the sam e and the perfect curvature is more ergonomic. The product is easy to grab, convenient,

Key Functions



1.HD display: High-definition full-color 5 inch 1920 * 1080 display screen, the picture effect is clear and delicate;

2. Long detection range: The longest detection range during the day is 2000 meters, and the longest detection distance at night is 600 meters;

3. Clear night vision: Human face and license plate number can be seen clearly within 300 meters at night;

4. Synchronous playback and recording: Playback can be performed simultaneously during recording without interrupting the recording;

5. Hidden photographing and video recording: 940nm red-exposed military-grade laser is used, which is invisible to the naked eye, thus effectively preventing exposure of law enforcement officers;

6. One-key capture of license plate: One-key capture of license plate can be achieved within 150m-200m at the night;

7. Laser linkage technology: Camera zoom and laser lighting, simultaneous zoom in and out in to achieve precise linkage;

8. Multiple control modes: Support local buttons, remote control, and APP operation;

9. Multiple transmission modes: Interexchanger (which can be connected with national secret 4G equipment), wifi, network port, USB, video, audio input and output

10. Mass memory: Built-in 240G extra-large solid state drive (expandable to 2T).

Detection Range

1. Daytime

Detection range: 2000m (human: 1.7m*0.5m)

Identification distance: 600m (human facial features and license plates)

2. Nighttime

Detection range: 600m (human: 1.7m*0.5m)

Identification distance: 300m (human facial features and license plates)

Rendering

Daytime shooting effect

Low illumination at night (laser OFF)

Low illumination at night (laser ON)

Penetration through window film at night

One-key capture of license plate at night

Penetration through window at night

Application

This product is applicable to all-weather detection, long-distance locking, real-time tracking and remote video capture of specific areas or targets, such as public security, narcotics squad, judicial administration, customs, jail, frontier, oil field, criminal investigation, national treasure, field rescue, ecological environment protection, wildlife protection and long-distance pat

C4i communication

LEARN MORE: c4icommunication.com
FOR MORE INFORMATION: contact@c4icommunication.com or +1 (302).981.1340