



As a portable video, audio and metadata recording and transmitting system, KAISHOT can use various cameras and transmit through various network | **KAISHOT**

KAISHOT



- KAISHOT is portable video and audio recording and transmitting system.
- KAISHOT is designed for waterproof and strong for shock. It can be used conveniently by belt clip, armband, etc.
- It can be used in Military, Police, firefighting, security company and sport etc with mini size high quality resolution.
- Video, Audio and Metadata Recording with GPS data. Viewer can see GPS data with Google map tracking.
- Possible to see video of other KAISHOT on the same network (PIP supported)
- KAISHOT viewer supports screens for 1Ch, 4Ch and 16Ch.
- KAISHOT can capture the video and send the image and text message.
- Motion detection supported

KAISHOT - Specification

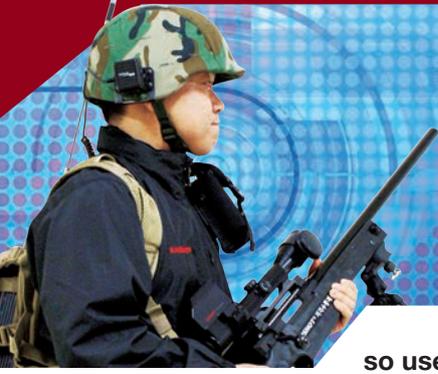
H/W Spec

CPU	ARM920T
External I/O Interface	USB 1.1 : 1ea, Serial , DIO AV out : 1ea (Φ3.5 AV Jack(RCA))
Display	2.4 inch color TFT-LCD (QVGA)
Battery Pack	Li-Polymer, DC3.7Vdc 2,100mAh / 4,200mAh
External Module	Ethernet, WiFi, Mesh Network, HSDPA/HSUPA, WiBro / WiMAX, TRS, GPRS
Dimension	63mm(W) X 110mm(D) X 28mm(H)
Operating Temperature	-10°C ~ 60°C
Material	Polycarbonate
Water Proof	IP 65
Weight	169.5g (2,100mAh battery)

Functions Spec

OS	Embedded OS (Linux)
Video Input (Camera)	1Ch, Composite NTSC/PAL (selectable)
Video Output	1Ch, Composite NTSC/PAL (selectable)
Video Resolution	NTSC: [720 X 480] [640 X 480] [320 X 240] (W X H) PAL : [720 X 576] [352 X 288] (W X H)
Video Frame Rate	NTSC : 30~1 fps PAL : 25~1 fps
Codec	H.264 (video), AAC (audio)
Language	[English] [Japanese] [Chinese] [Korean] [Russian]

※The product's information & specification may change without notice



KAISHOT

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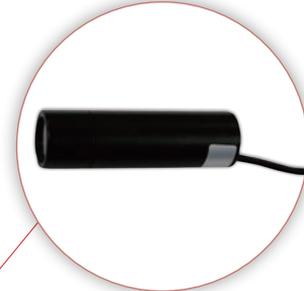
KAISHOT can use various cameras so users can select the camera that they want

KAISHOT-Camera



Hybrid Camera

- Video Standard : NTSC / PAL
- Image Sensor : 1/4" CCD
- Lens and Sight Angle : 3.6mm (Standard) F2.0 / 68°, replaceable
- Scan Method : 525 Lines (60 fields/sec), 625 Lines (50 fields/sec)
- Illumination : 0.5 Lux/F1.2
- GPS Module : SIRF star 3 (Built in)



Bullet Camera

- Image Sensor : 1/4" CCD
- Pixel : NTSC-542(H)x496(V)
- Scanning System : NTSC-525Line 60field/Sec
- Resolution : 400TVL / 470TVL (Max)



Backmount Camera

- 1/4" Color CCD Headset OSD Camera
- Pixel : 380K (NTSC), 410K (PAL)
- Lens : 3.7mm/F2.0
- Resolution : 520TV Lines
- Shutter Speed : 1/50-1/100,000
- Built-in Microphone



Snake Camera

- 1/4" Color CMOS Camera
- 75cm flexible iron pipe protect cable
- Illumination : 1.5Lux/F1.2
- Pixel : NTSC-250K (Only)
- Power Source : DC 9-12V



Sunglasses Camera

- Wearable Camera Hidden in glasses
- 1/4" CCD Color ultra mini camera
- Pixel : 250 (NTSC), 290 (PAL)
- Illumination : 0.5Lux/F1.4
- Power Source : DC 9-12V
- Lens : 3.1mm/F3.4

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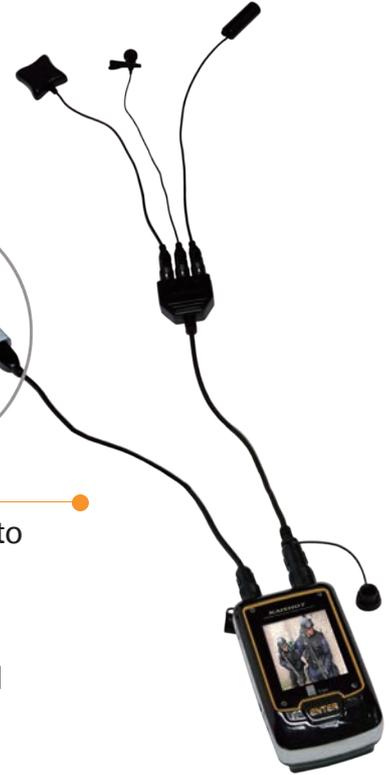
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KAISHOT has accessories such as Juntion Box, WiFi, KAISHOT Mini Commander

KAISHOT-Accessory

KAISHOT - Junction Box (IDF-JB)



- Junction Box is the equipment that can connect Camera, GPS, Mic to KAISHOT in order to enhance efficiency.
- Able to use Camera, GPS, Mic on occasion
- Waterproof and able to absorb shocks so can be used safely in wet and risky conditions.
- Used at Korea Army

KAISHOT - WiFi



Standard WiFi

- 54M Wireless LAN USB Adapter, 2.4GHz, 802.11g/b
- WPA data security, TKIP/AES encryption, 64/128-bit WEP encryption
- Internal Antenna
- Transmission Distance : Indoor up to 100m, outdoor up to 300m (it is limited in an environment)
- Transmit Power : 18dBm(Typical)
- Radio Data Rate : 54/48/36/24/12/9/6/11/5.5/2/1 Mbps (Auto Rate Sensing)

High power WiFi

- IEEE 802.11a/b/g/n standards compliance
- Operating distance of up to 300 meters
- Operating distance of up to 500meters in open space
- Data Rate :
 IEEE 802.11a: Up to 54Mbps↓ IEEE 802.11b: Up to 11Mbps↓
 IEEE 802.11g: Up to 54Mbps↓ IEEE 802.11n: Up to 300Mbps↓
- Output Power: 802.11a: 23±1.5dBm↓
 802.11b/g: 28±1.5dBm↓
 802.11b/g/n: 28±1.5dBm↓

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KAISHOT has accessories such as Juntion Box, WiFi, KAISHOT Mini Commander

KAISHOT-Accessory

KAISHOT mini commander (IDF-C1300)

Specification

- 7inch touch LCD
- Bluetooth earphone and microphone supported
- Operation system : Windows XP
- High Power WiFi (802.11 a/b/g/n network) supported (external)

Application

- Able to be operated by small military unit. (SWAT, Special Forces)
- Each member shows on the map and the map will be sent to each member.
- Video of each member will be received and saved. Also, the video can be transmitted to specific member.
- Man-to-man voice communication
- Group voice communication (in development)



[IDF-C1300]

Flexible Platform

01 Record



- Various cameras
- No network
- Record AV in SD Card

Bullet camera



02 Record Transmit Combination



- Hybrid camera only
- Network
- Record AV in SD Card
- Streaming

Hybrid camera



03 Combination



- Various cameras incl. hybrid
- Network (Wide range)
- Record AV in SD Card
- Streaming



KAISHOT AP Transmitter

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KAISHOT -COFDM Digital Video Receiver

KAISHOT - COFDM Digital Video Receiver



[4Channel Commander]

- **KAISHOT Digital Video Receiver** is easy to install and can get 4Ch Video and Audio data in real time so headquarters or a commander car can take an action immediately.
- It can save and check 4Ch Video and Audio in the same time and it is Waterproof IP65.
- Easy to use (Just power on after setting for use)
- Applications -Fire Control Commander / SWAT
 - Special Warfare Command
 - Coast Guard / Marine Police
 - Police Patrol / Unmanned Aircraft
 - Night Intruder



[1Channel Commander]

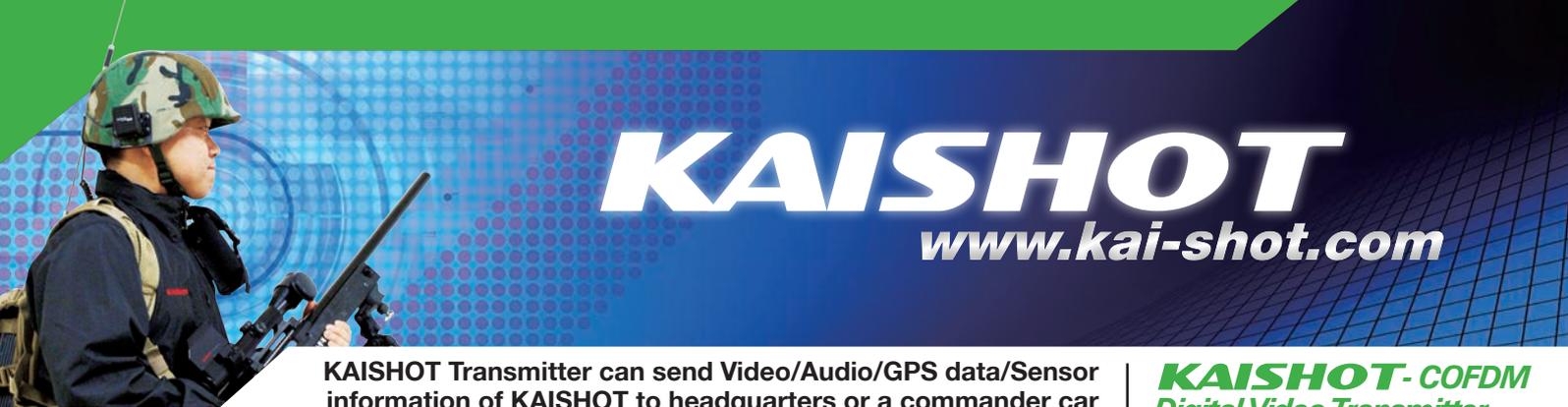


[Rack Type Receiver]

KAISHOT - COFDM Digital Video Receiver Specification

Frequency Range	150MHz ~3GHz (Selectable)
Bandwidth	1.25MHz, 2.5MHz / 6MHz, 7MHz, 8MHz
RF Input Level	-94dBm ~ -20dBm
Modulation	QPSK, 16QAM, 64QAM
FEC	1/3, 2/3 @ 1.25MHz, 2.5MHz, 1/2, 2/3, 3/4, 5/6, 7/8 @ 6MHz, 7MHz, 8MHz
Guard Interval	1/4, 1/8, 1/16, 1/32
Encryption	ABS128 bit, AES128/256 (Option)
Operating Temperature	0°C ~ +50°C
Power Input	AC110~220V, 50~60Hz (Option-4Cell Battery)
Video / Audio Out	Display 1Ch, 4Ch / 2Ch Audio Out
Video Resolution	720 X 480 (D1)
RF Interface	N Female
Video Recording	4Ch realtime A/V Recording Supported
Motion Detection	Supported
Ethernet Interface	Internet Explorer viewing

※The products' information & specification may change without notice



KAISHOT Transmitter can send Video/Audio/GPS data/Sensor information of KAISHOT to headquarters or a commander car

KAISHOT-COFDM
Digital Video Transmitter

KAISHOT - COFDM Digital Video Transmitter



- **KAISHOT Digital Video Transmitter** can send Video / Audio / GPS data / Sensor information of KAISHOT or any other Video source to headquarters or a commander car so headquarters can do monitoring and take an action or order to the staff on the spot. (Transmission range can be changed by wireless condition)
- It is possible to customize various RF Frequency, bandwidth, and RF power. Also, it can provide the best solution following the user's environment.
- Easy to use (Just power on after setting for use)
- Small size & light weight to use
- Battery replaceable. ex) 0.5W Transmitter can change the battery for use 3 hours or 6 hours)
- High-Security system (AES128 encryption)



[0.5W Transmitter]



[1W Transmitter]



[2W/5W Transmitter]



[20W Transmitter]

KAISHOT - COFDM Digital Video Transmitter Specification

Frequency Range	150MHz ~3GHz (Selectable)
Bandwidth	1.25MHz, 2.5MHz / 6MHz, 7MHz, 8MHz
Transmission Range	5Km~Over 100Km (L.O.S)
Modulation	QPSK, 16QAM, 64QAM
Video Delay Time	Under 200ms
Encoder	MPEG 2 / MPEG 4
FEC	1/3, 2/3 @ 1.25MHz, 2.5MHz, 1/2, 2/3, 3/4, 5/6, 7/8 @ 6MHz, 7MHz, 8MHz
Encryption	AES128 bit
Operating Temperature	-25°C ~ +65°C
RF Power Output	27dBm, 30dBm, 33dBm, 37dBm, 43dBm
DC Input Power	12Vdc~16Vdc
Battery Capacity	2.3~4.6A (0.5W TX), 8A (1W), 8A (2W), 10A (5W), 15A(20W)
Power Consumption	0.8A (0.5W TX), 1.4A (1W), 2.8A (2W), 5.3A (5W), 7A(20W)
RF Interface	BNC, (N Female)

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KAISHOT -Applications

/ KAISHOT Network for Law Enforcement



ii KAISHOT Network for Anti-Terror



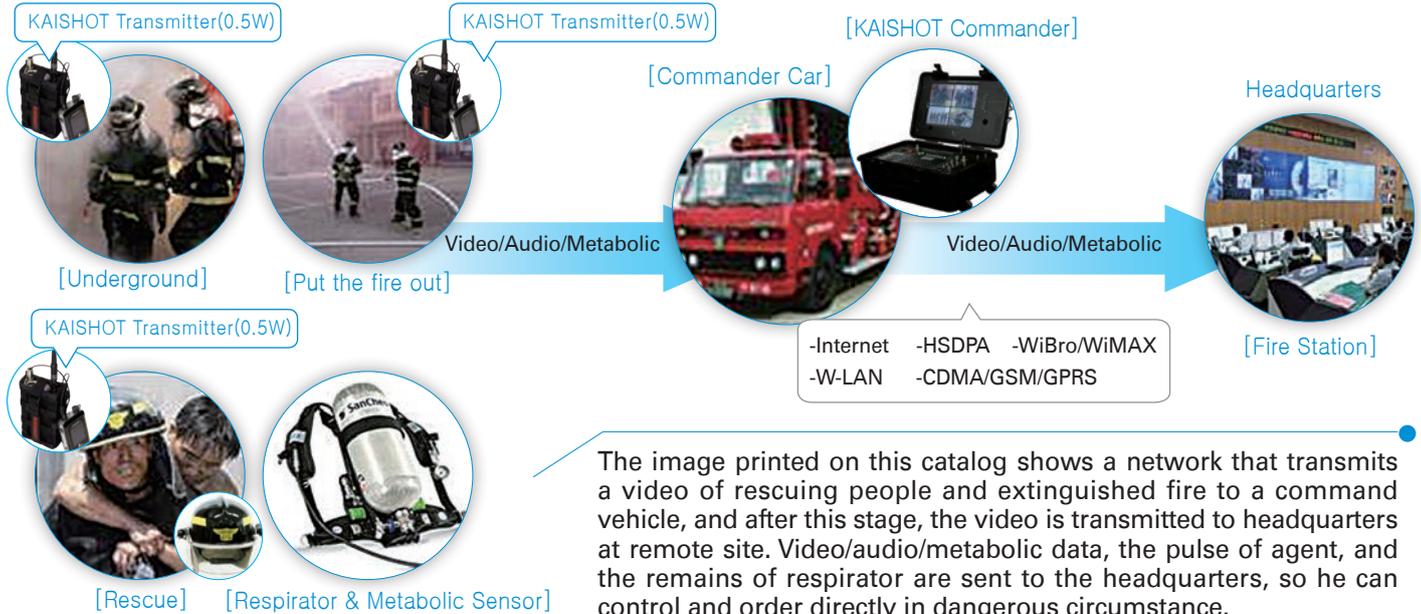


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KAISHOT -Applications

iii KAISHOT Network for Firefighting



The image printed on this catalog shows a network that transmits a video of rescuing people and extinguished fire to a command vehicle, and after this stage, the video is transmitted to headquarters at remote site. Video/audio/metabolic data, the pulse of agent, and the remains of respirator are sent to the headquarters, so he can control and order directly in dangerous circumstance.

iv KAISHOT Summary of Sniper View Camera System



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The KAISHOT System can be mounted on the sighting telescope record video, and transmit to the commander. Therefore, headquarters in remote area is possible to see what sniper is aiming on at the same time and control over pulling the trigger

KAISHOT-Sniper and Spotter Control System

KAISHOT - Sniper and Spotter Control System



Commander (C1200-01/02)4Ch/1Ch

1. Wide View Finder

It is possible to see the target that the sniper gets an accurate aim from the view finder of telescope's lens.

2. Synchro View Control

Headquarters in remote area is possible to control shooting target by Sniper View Camera System through wireless transmission. (Up to 50km)

- Headquarters can see and control 4 snipers at the same time. (Same target or each target)
- It is possible to use other optical instruments such as an astronomical telescope.

Headquarters can check out the target that the sniper is aiming on in real time.



1W Tactical Controlling System

Wireless Tactical Control System for Long Distance Transmission



Sniper View Camera

Sighting Telescope

Telescope's View Finder

3. Accuracy & Durability

- Durable for impact
- Possible to use under any weather condition
- Possible to use corner shot
- Possible to use unmanned remote shooting

4. Portability & Mobility

- Compact size
- A case of Sniper View Camera System
- Easy to install and separate
- Clean view with quick movement
- Apparent view in dark

- Remote 2 way controlling system
- Educational target practice for snipers
- Unmanned target control in remote area

Patent Pending

Option: Electronic Magnetic Trigger Device



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Composition_SVCS (Sniper/spotter View Camera System)
Tactical Controlling System, Monitoring System

**KAISHOT - Sniper
and Spotter Control System**

KAISHOT - Sniper and Spotter Control System



Sniper View
Camera System



Spotter View
Camera System

SVCS (Sniper View Camera System)

Resolution	720X480 / 30fps
Camera	1/3 Inch CCD
Pixel	771(H)X492(V) / NTSC
Illumination	0.25 Lux
Frame Integration	X32
Vision	Day & Night Vision
Magnetic Trigger Device	Optional

※Except Sniper/Spotter Telescope



1W Tactical
Controlling System

Tactical Controlling System

Camera Input	2Ch, NTSC/PAL (Selectable)
Resolution	NTSC (720x480 / 30fps), PAL (720x576 / 25fps)
LCD	4inch Wide
Codec	MPEG 2 / MPEG 4
Frequency	150MHz~3GHz (Selectable)
Function	Receiving signal of Video Trigger Control
Output	1W (Distance: ~30km L.O.S.)



Model No :

- 4Ch Rx : C1200-01
- 1Ch Rx : C1200-02

Monitoring System (Commander)

Frequency	150MHz~3GHz (Selectable)
Bandwidth	1.25/2.5/6/7/8 MHz
Resolution	720x480 / 30fps
LCD	15inch, color 1500Cd
Video Output	4Ch (1200-01) / 1Ch (1200-02)
Battery Life	Over 2.5 hour
Transmission Distance	Over 20km (Depends on the transmission power)
Option	Trigger Lock/Unlock Signal Transmission VOIP Function

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