Product Catalogue

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Company Profile

SAFE GUARD, found in 1999, is a leading global technology business specializing in the provision of advanced RF wireless communications to the broadcast, public surverillance and defense industries. By continuously investing in innovation and combining exceptional products and services, SAFE GUARD delivers superior solutions that enable our customers to do their jobs even more effectively - and set us apart.

SAFE GUARD is dedicated to developing the high level wireless mobile video surveillance system for application of Law enforcement and military, government, R/C helicopter, ECCM, Radar, satellite, farm industry and commercial such as photography and videography. We have a strong technical and R&D capabilities, produce research and production backbone from the previous state-run 806 plants and 54 Institute. Last for 15 years, SAFE GUARD continually concentrate on researching and innovating in the wireless high speed mobile video transmission industry based in LOS/NLOS environments, especial for Unmanned aircraft vehicle(UAV), airborne area and soldier man-pack areas.

We will try to meet your requirements and custom made a special device for you. "Your support and suggestions are our motivation". We aim to provide our users worldwide exclusive advanced wireless videography system.

SG-TX4K Transmitter

【Features】

- Data Signal mode: Standard RS485/RS232/RS422
- Baud rate: 2400bps-19200bps
- Working Frequency: 300～900MHz,1100-4400MHz (optional)
- RF Power Output: 100W (it means 50dbm)
- Bandwidth: 2/2.5/4/8MHz （adjustable）
- Video Input: BNC/ SDI/HDMI (Manual switch)
- Video resolution: 3480*2160p (4k)
- HD video Interface: SDI, HDMI
- SD Video Interface: BNC/RCA
- Audio Channel: Aviation plug, Stereo L&R channel
- Encryption: AES128bits
- Video Coding: H.265
- Modulation: COFDM
- Parameter Control: through LCD control panel
- Antenna connector: RF, N type
- Voltage: DC28V
- Weight: 6.7 Kg

SG-HD105 Transmitter

【Features】

- COFDM modulation, stability signal
- HD-SDI/HDMI and BNC input
- Bandwidth 2/2.5/4/8MHz adjustable
- HD video & Balanced stereo audio input.
- Dual V battery mounts
- 5-8W RF power output adjustable
- Live broadcasting, low delay
- Size:180*110*85mm, Weight:1.6kg

SG-TD1400 Transceiver

【Features】.

- Frequency: 1400MHz / 770MHz
- RF Power: 3-5W
- Bandwidth: 4/8MHz (adjustable)
- Power supply: DC7-17V/10W
- Data port: RS485/RS232/RS422
- Network port: RJ-45 Ethernet port
- Modulation: TDD-COFDM
- Two-way audio video data signals transmission
- Transfer rate: Max 6.5Mbps
- Encryption: AES user-defined password
- Baud ratre: can up to 921600bps maximum
- Distance: up to 20-30km LOS (on UAV)
- Size:155*108*22mm
- weight: 550g/pcs

SG-2400NB Transceiver

【Features】

- Full duplex working mode,TDD-COFDM modulation
- Bidirectional vide audio and data signals communication
- Has RJ-45 Ethernet and RS485/232/422
- 2.4GHz frequency, transfer rate occupy 6.5Mbps
- Only 122grams, easy to carry and hidden
- Support high standard of industrial and military level application
- Suitable for UAV shooting or network building
- Provide AES user-defined password
- Size: 67*52*23mm

SG-OF1400 Transceiver

【Features】

- • RF bandwidth 5M/10M
- • FHSS technology
- • Support for any E802.11 devices
- • Dual RF antenna ports
- • RS232/TTL data serial port
- • User-defined encryption support
- • Point-to-point wireless communication
- • WLAN Support
- • Rapid movement communication support

SG-HD153 Transmitter

【Features】

- Frequency: 300MHz-4.4GHz
- RF Power: 1.5Watt (adjustable)
- Voltage: DC12V/960mA
- Modulation: COFDM 2K QPSK
- RF Bandwidth: 4/8MHz(adjustable)
- Data Encryption: AES user-defined password
- AV Input: HD-SDI &HDMI and AV (3 interfaces)
- Resolution: 1080i/P@60fps & 720P
- Distance: 1-40km UAV to ground, NLOS 500-600m
- Low delay time
- Size: 110*58*27mm
- Weight: 302g

SG-MS340 IP Mesh

【Features】

- Frequency: 340MHz/580MHz
- RF output power: 1~3Watt
- Modulation: COFDM
- RF bandwidth: 5/10MHz
- Encryption: AES user-defined password
- High transmission rate: peak 11Mbps @ 10MHz
- Ultra-strong receiving sensitivity: -92dbm @ 10MHz
- Video bit rate: 3Mbps Max
- RS232 data serial port: 150bps~38.4kbps
- Support GPS, 3G/4G module, WIFI module
- Non-line-of- sight communication
- Self-organizing network
- Self-encrypting security algorithm
- Networking capability up to 16 nodes
- Cover distance: Customized
- Weight: 1.4Kg

SG-VT10 Transmitter

【Features】

- COFDM modulation, good stability
- H.264 video compression, DVD quality
- 10Watt RF Power Output
- RF bandwidth: 2/2.5/4/MHz(adjustable)
- Video and two way audio communication
- Works well in NLOS & fast-moving conditions
- LCD screen shows parameters and working status
- Dual aerials connectors
- Size: 200*130*60mm，weight: 2.5kg

SG-R5000 Transmitter

【Features】

- COFDM modulation
- 8Watt RF power output
- BNC interfaces, for any normal cameras
- DC12V/1.9A Power supply
- Support video and stereo L/R audio channel
- Works well in NLOS&fast moving conditions
- Connected with flexible antenna better for man-pack
- Size: 200*130*60mm，weight: 1.5kg

SG-S20 Transmitter

【Features】

- COFDM modilation,stable transmission
- MPEG-4/H.264 video compression, DVD video
- quality Low consumption,has two fan cooled radiators
- works well in NLOS&fast moving conditions
- BNC ports, Be safety with AES encryption
- Modular design, compact structure, OEM design
- Can customize with adding additional features
- LCD screen showing parameters and working status
- Size: 220*140*60mm
- weight: 2.3kg

SG-HSA35 Transmitter

【Features】

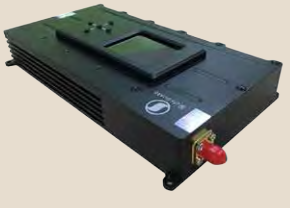
- Frequency: 300MHz-4.4GHz
- RF Power: 5W
- Voltage: DC12V/5A
- Modulation: COFDM
- RF Bandwidth: 2/2.5/4/8MHz (adjustable)
- AV Input: HD-SDI, HDMI, and BNC (3 interfaces)
- Resolution: 1080P/i, 720PP/i
- Size: 230*150*66mm
- Weight: 2.88kg

SG-T5000S Transmitter

【Features】

- 5-8Watt RF power output
- 2/2.5/4/8MHz bandwidth
- Built-in with battery 2300mA or no baterry inside
- BNC and aviation plug
- DC12V or customize others
- Good quality and DVD resolution
- Lightweight and in small size
- Size:180*100*60mm
- Weight: 1444g

SG-HD103 Transmitter



【Features】

- Low delay, lightweight, live broadcast;
- Support Full- HD quality image;
- Support 1080i/1080P HD transmission;
- COFDM modulation;
- Built-in with HDMI or HD-SDI interface（single selection）;
- Can request to add BNC interface
- Small size and lightweight;
- All parameters can be adjusted by user;
- Size:167*90*25mm，Weight: 515g

SG-H5000B Transmitter

【Features】

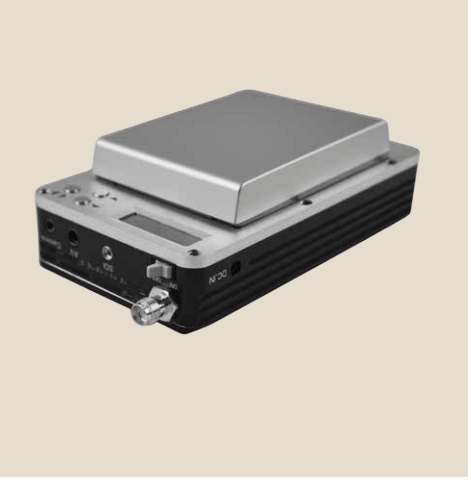
- 5-8Watt RF power output
- Full HD resolution,1080i/1080P
- H.264 Video Compression
- Has HDMI/SDI and BNC Composite ports
- 2/2.5/4/8MHz bandwidth
- With 4 holes at the bottom for fixed installation
- Widely used in UAV shooting, Live broadcast and etc
- Size:190*120*60mm
- Weight: 1.4kg

SG-30H Transmitter

【Features】

- Rack designed special for vehicle placed.
- RF power output 30W/50W/100W/200W option
- AES encryption
- Standard BNC ports, or HDMI/SDI interface
- High definition and good image effects
- Support high speed mobile transmission
- Strong ability of anti-interference, diffraction and penetration
- Can up to about 100km and more in LOS environment /50km NLOS in suburb
- Use in rescue, field operations and other emergency communication systems
- Size: 400*230*160mm
- Weight: 13kg

SG-HDS1000A Transmitter



【Features】

- 1 Watt RF power output
- 2/2.5/4/8Mhz bandwidth
- Full HD resolution, H.264 coding
- Small size and lightweight
- CVBS, SDI/HDMI hd interfaces
- Works well in NLOS/LOS and fast-moving conditions
- Suitable for UAV shooting and wearable
- Low delay
- Size:100*59*22mm
- Weight: 195g

SG-HD25W Transmitter

【Features】

- Full HD resolution 1080P/1080I
- Support 15-25W RF power;
- COFDM modulation, H.264 video compression
- Built in with HDMI/HD-SDI and BNC ports
- Support L/R stereo audio in/out;
- Strong heat resistance capacity;
- 4/8MHz RF bandwidth; PAL/NTSC self adaption;
- Low delay;
- Size: 280*220*70mm, Weight: 5kg

SG-HD50W Transmitter

【Features】

- Full HD resolution 1080P/1080I
- Support 30-50W RF power;
- COFDM modulation, H.264 video compression
- Built in with HDMI, HD-SDI and BNC ports
- Support L/R stereo audio in/out;
- Strong heat resistance capacity;
- 2/2.5/4/8MHz RF bandwidth;
- PAL/NTSC self adaption;
- Weight: 7.6kg

SG-SRT01 Receiver

【Features】

- The military suitcase box is from PELICAN
- Good quality, watertight, crushproof, and dust proof
- Very sharp image, support 720P or 1080P definition image
- Support 1CH or 4CH AV signals receiving at the same time.
- Standard 17inch Samsung HD LCD screen
- Insert DVR with 60G / 1TB SSD memory
- Dual aerials connectors designed
- Control operate system by using external mouse.
- Work well in NLOS and moving transmission
- Support remote control, dynamic IP and can realize IE browsing
- Extra USB insert easy to your hard disk to copy the video
- The left space for your PC placed, more convenient
- Size: 927*355*152mm
- Weight: 23kg

SG-CH4 Receiver

【Features】

- Standard COFDM reception, double aerial receiving
- Special designed with 17inch LCD monitor DVR
- Single channel or 4CH video audio recording and monitoring
- Internal 60G/1TB SSD memory
- BNC, HDMI, USB, RJ-45 Ethernet ports and etc
- Support remote control dynamic IP, support IE browsing
- Can control operation system by using an external keyboard
- Size: 535*437*213mm, Weight: 22kg

SG-HR101 Receiver

【Features】

- High safety and reliability;
- Built in with 7" 1080P HD LCD screen;
- Small size and lightweight for portable;
- COFDM modulation, H.264 decoding;
- USB plug for memory copy
- Special designed with a sun shade, sun clearly visible;
- Center marker, screen marker (viewfinder) function
- Multicarrier dual antennas diversity reception;
- Support video audio transmitting synchronously;
- Size:350*215*50mm,Weight: 3.2kg

SG-DR2000 Receiver

【Features】

- Small size and lightweight;
- BNC interfaces or customize HD port
- Easy to be carried.
- Support 720p OR 1080P resolution
- Video and Stereo audio output;
- <-105dBm Sensitivity
- COFDM modulation, H.264 coding
- Size: 160*130*30mm
- Weight: 1.6kg

SG-RX4K Receiver

【Features】

- Dual aerials diversity reception
- High sensitivity: -105db@2MHz
- Support 4 channels video audio communication simultaneously
- 4K H.264 super high definition image and digital stereo output
- Working frequency: 200-4400MHz
- Bandwidth: 2M/2.5M/4M/8MHz adjustable
- Video interface: BNC*8, HDMI*4
- Audio Channel: Stereo L&R channel
- Data Signal mode: Standard RS485/RS232/RS 422
- Standard TN screen
- Standard wide screen: 16:9, 28 inch LCD screen
- Resolution: 3480*2160 (Optimal)
- Visible Angle: 170/160
- Brightness: 370cd/m2

Weight: 25Kg

SG-HR50 Receiver

【Features】

- HD COFDM AV receiver
- Supported multi-socket output
- HDMI, SDI and BNC outputs
- <-105dBm Sensitivity
- Transmit video and audio signal simultaneously
- Can be with RS485/RS232 data control together
- 1.5U Rack design,easy to installed in car
- Size: 480*370*60mm, Weight: 4kg

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