

New FPV Minimum COFDM AV Transmitter

SG-S1000A



Picture1 White



Picture2 Black

It has character of super light weight and small size,use MPEG4 coding format and COFDM (coded orthogonal frequency division multiplexing) digital modulation, provide high quality image in resolution 720*576.Support NLOS transmission and reception as well high speed mobile transmission.Can be carried in your pocket / briefcase for secret evidence or for UAV application.

Features:

- COFDM modulation, Stable transmission
- MPEG-2 video compression, DVD video quality;
- Modular design and highly integrated
- NTSC/PAL automatically adapt ,support user adjustable;
- Shortly time delay;
- Supports high-speed mobile NLOS (Non Light Of Sight) transmission;
- Lithium battery for power supply(continuous working time is 1 hours max)
- Adjustable working frequency,bandwidth,RF power and etc.
- Transmission security by encryption of AES 265 bit
- Good quality image without any mosaic;
- Only has 195g net weight(without battery),very easy for portable and UAV applications.
- Matched with multifunction amplifier for longer range requirement.

Specifications:

Modulation	COFDM
Power supply	DC7.5-12V/ 0.9A-13A
Frequency	300-900MHz(optional)
Bandwidth	2/2.5/4/8M(adjustable)
Power Output	1Watt
AV Interface	2.5mm jack for camera(CVBS) 3.5mm jack for AV (CVBS)
Encryption	AES 128 bits / ALLTECH Basic scrambling
Constellation	QPSK,16QAM
FEC	1/2,2/3,3/4,5/6, 7/8
Guard Interval	1/32,1/16,1/8,1/4
Flatness	≤2dB(within full frequency range) , ≤0.5dB (within 8MHz)
Carrier	2K
CNR	≥-30dB @ 30dBm power output
SHG	>52dBc
CBER	<2.0E-4
Video Signal	1Vp-p@75Ω,NTSC/PAL analog adaptive
Video Compression	MPEG-2 4:2:0 /MPEG-4 (optional)
Resolution	Standard 720P
RF Interface	N(type)
Video Format	PAL/NTSC (self-adaption)
Battery working time	1hour
Operating Temperature	-25℃~55℃
Storage Temperature	-40℃~70℃
Transmission Distance	20km LOS/NLOS distance (for air to ground) if over 300m high 300m NLOS distance(for body worn)
Size	100*59*22mm
Weight	195g(without battery); 288g(with battery)

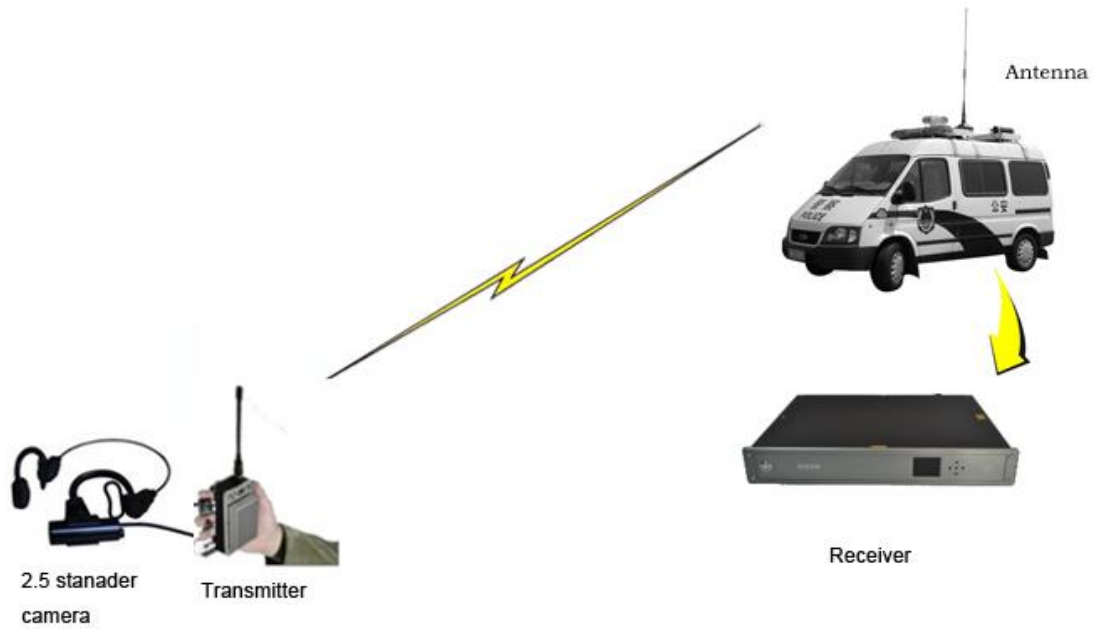
Paired Receiver:



Frequency	300-4400MHz (option)
Bandwidth	2/2.5/4/8MHz (adjustable)
RF Level Input	-105dBm~-20dBm
RF Impedance	50Ω
RF Interface	N female
Modulation	COFDM
Constellation	QPSK,16QAM
FEC	1/2, 2/3, 3/4, 5/6,7/8
Guard Interval	1/32, 1/16, 1/8, 1/4
Carrier	2K,8K
Video Decoding	ISO/IEC13818-2 MPEG-2MP@ML
Aspect Ratio	4:3, 16:9
Resolution	Standard 720P
Audio Output	Analog stereo left and right channels
Encryption	AES128 bit / ALLTECH Basic scrambling
Working Voltage	AC220V / DC12V
Temperature	-30~70°
Dimension	430*310*65mm (1U Aluminum alloy box)
Weight	3.5 kg

Application:

It's widely used in UAV aviation filming, covert investigation, video surveillance, wireless image real-time transmission and etc.



Or

