

## 5-8W Adjustable Long range COFDM Wireless AV Transmitter



This military backpack man-portable transmitter is special for entering into the area of the incident to gather information and signal transmission under the condition of heavy obstacles, such as many building barriers, severe electromagnetic interference, remote mountain town or other harsh environments.

At the front-end personnel, scouts, firefighters, rescue personnel or television interview personnel using small size, backpack or Buckle format transmitter transmit the live signals to the rear command vehicle. Then the command vehicle will receive the image displayed on the monitor via the receiver which is convenient for real time understanding of the site condition and timely command.

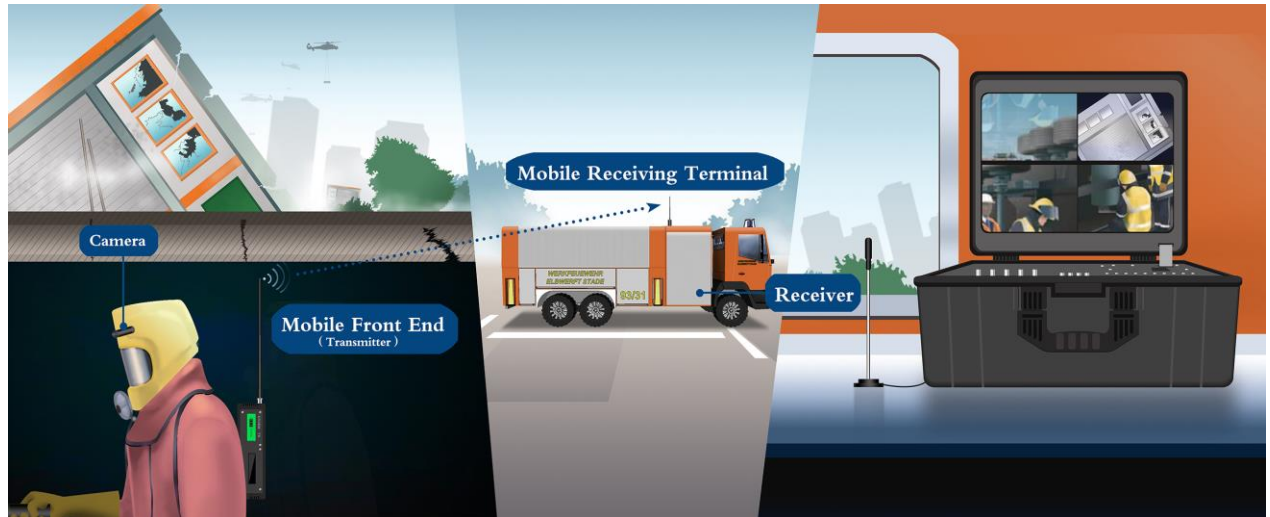
### Features

- \*COFDM modulation (coded orthogonal frequency division multiplexing)
- \*H.264 coding format
- \*Effectively achieve real-time, anti-multipath, short latency
- \*Support NLOS(non line of sight) high speed moving transmission
- \*High standards of military-grade applications
- \*Small volume, lightweight, easy carry, portable and convenient, aluminum outer-casing with good heat radiation
- \*AES128bits/265bits encryption ensures security
- \*300-4400MHz optional frequency

**Transmitter parameters:**

Model	SG-T5000S
Frequency	300-4400MHz(option)
RF output Power	5-8Watt(adjustable)
Voltage	DC12V
Modulation	COFDM
Constellation	QPSK,16QAM
Bandwidth	2/2.5/4/8MHz(adjustable)
FEC	1/2, 2/3, 3/4, 5/6,7/8
Guard Interval	1/32, 1/16, 1/8, 1/4
Video Input	1 line PAL/NTSC analog video
Audio Input	stereo left and right channels
AV Interface	BNC
Video Compression	H.264
Data encryption	AES / ALLTECH Basic scrambling
Flatness	Full band $\leq$ 2dB, 8MHz $\leq$ 0.5dB
Carrier	2K,8K
Resolution	standard 720P
RF Interface	N(F)
Video Format	PAL/NTSC(self-adaption)
Case Material	Aluminum alloy, waterproof
Built-in battery	2300mA, 3Hrs
Work environment	-30~70°
Distance	3-5km max NLOS(manpack) Over 100kms LOS distance on UAV (if over 300m altitude)
Size	140*85*50mm
Weight	800g(net weight)

## Product application:



## Why COFDM digital transmission system

Coded Orthogonal Frequency Division Multiplexing

1. Requires much narrower bandwidth than analog's
2. Resistant to multi-path
3. Robust signal in NLOS (non line of sight)--Performing inside buildings, through walls, and around corners
4. Error correction & strong encryption
5. High performances on aircraft, vehicles, ships
6. Performs well in high speed moving transmission