

5W COFDM NLOS Video & Audio Transmission System

Model: ST9500T



TX



RX

Introduction

ST9500T is a powerful COFDM bi-directional soldier body worn video and audio transmitting system with strong penetrating ability. It adopts H.264 technology supporting HDMI and CVBS video input. 80ms latency making it very suitable for projects which need real time transmission.

The system can access to USB flash disk, TF card for local audio and video synchronization storage. It is widely used in urban emergency response, anti-terrorism, border defense, armed police fire, maritime, UAV and other units of the emergency map transmission demand. It supports ground to air, air to air, urban environment, forest environment and other multi-dimensional audio and video signal transmission.

Features

- 1) H.264 compressed encoding support 1080P@60fps
- 2) Support HDMI, CVBS video transmission
 - Mini HDMI: 1080 60P/1080 50P/1080 30P/1080 25P/1080 24P/1080 60I/1080 50I/1080 30I/720 60P/720 50P/720 30P(self-adaption)
 - AV in: 720x480 60I(NTSC)/720x576 50I(PAL)(self-adaption)
- 3) Single way voice communication
- 4) Latency: 40-80ms
- 5) RF power, frequency and bandwidth are adjustable
- 6) Support AES256 encryption
- 7) Support stable transmission during high-speed mobile

TX Parameters

Frequency	Video: 300MHz~860MHz
Power	37dBm (5Watts)
Video Coding	H.264
Video	Mini HDMI: 1080 60P/1080 50P/1080 30P/1080 25P/1080 24P/1080 60I/1080 50I/1080 30I/720 60P/720 50P/720 30P(self-adaption)
	AV in: 720x480 60I(NTSC)/720x576 50I(PAL)(self-adaption)
Audio	Mini HDM
	AV in & Audio in
Antenna	UHF
Modulation	Convolution coding ratio: 1/2, 2/3, 3/4, 5/6, 7/8
	Support QPSK/QAM16/QAM64
	Support IFFT: 2K/8K
	Guard Interval: 1/4, 1/8, 1/16, 1/32
	Bandwidth: 2/3/4/5/6/7/8 MHz
	Encryption: AES256
Latency	40-80ms
Power Input	DC12V 3.5A
Size	140*45*215mm
Net Weight	1.2kg

TX Interface Definition



RX Parameters

Power	DC Input	DC 12V/3A
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	Built-in Lithium Battery	12V/6Ah
Video	HDMI Output	HDMI-A-type port audio and video output, support H.264 video decoding, maximum support 1080P @ 60fps
	CVBS Output	CVBS Video Output
Audio	Two way voice function(Optional)	MIC/LINE-IN, LINE-OUT, connecting handle microphone
RF	Convolution coding ratio	1/2, 2/3, 3/4, 5/6, 7/8
	Modulation	QPSK/QAM16/QAM64
	IFFT	2K/8K
	Guard Interval	1/4, 1/8, 1/16, 1/32
	Bandwidth	2/3/4/5/6/7/8 MHz
Receive Sensitivity	4MHz	≤-104dBm
	8MHz	≤-97dBm
Video Storage	USB	Support max 32GB U disk for local audio and video storage
	TF Card	Support max 32GB TF card for local audio and video storage
Serial Port	RS232	Support 1 channel RS232 transparent serial port (optional)
Physical Characteristics	Operating Humidity	10%—95%
	Working Temperature	-15℃—60℃
	Dimension	368*48*230mm
	Weight	2.2kg

RX Interface Definition



