

# UAV/Robot/UGV NLOS HD Video Transmitter

**Model: ST5200W1**

## Introduction

ST5200W1 cover COFDM transmitter is a new designed wireless mobile video transmission system with great features and stable performance. The highly integrated transmission system provided superior performance in NLOS(non line-of-sight) condition. Its easy use with ultra light features makes it ideal match use with personal covert clothes or UAV.



## Features



- 1) AES encrypted video transmission
- 2) Aluminum alloy casing with good shock resistance
- 3) External digital frequency controller for users easy adjust on the spot
- 4) Mobile video transmission in NLOS(NO LINE OF SIGHT) condition and environment
- 5) Work frequency adjustable in appointed frequency range

- 6) COFDM modulation and H.264 compression for stable and high quality audio and video signal
- 7) Support HDMI signal input, video and audio signal input simultaneous
- 8) Multiple bandwidth adjustable 2/4/6/8 MHz
- 9) Video input PAL/NTSC optional

## TX Parameters

Power	
Working Voltage	DC12V
Working Current	2A
RF	
Working Frequency	160MHz~860MHz
Output Power	30dBm
RF Bandwidth	2/4/6/8 MHz
Modulation	COFDM
Serial Port	

Data	Half-duplex transparent data transmission(OSD UART)
Serial Port	Config UART
System	
Convolutional Encode 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
HDMI	
Version	HDMI mini
Resolution Ratio	Max 1080*1920/60P
Video Encoding	H.264
CVBS	
Video Encoding	H.264
Video Input Format	PAL/NTSC
Encryption	
Encryption	AES 256
Antenna	
Omni Antenna	SMA
Weight & Dimension	
Weight	136g
Dimension	75*65*28mm



#### RX Parameters

Power	
Working Voltage	DC12V
Working Current	2A
RF	
Working Frequency	160MHz~860MHz

Output Power	30dBm
Modulation	COFDM
<b>HDMI</b>	
Version	HDMI mini
Resolution Ratio	Max 1080*1920/60P
Video Encoding	H.264
<b>CVBS</b>	
Video Encoding	H.264
Video Input Format	PAL/NTSC
<b>Encryption</b>	
Encryption	AES 256
<b>Receive Sensitivity</b>	
QPSK/8MHz	-97±1dbm
QPSK 6MHz	-98±1dbm
<b>Antenna</b>	
SMA	Double Antenna
<b>Video Record</b>	
Video Record	USB
<b>Indicator &amp; Keys</b>	
Led Lights	Power/RF/Video Recording
Key 1	Parameters Setting Switch
Key 2	Video Recording Switch
<b>Weight &amp; Dimension</b>	
Weight	248g
Dimension	109*86*40mm

