

UAV/Robot/UGV NLOS HD Video Transmitter

Model: ST9500MH

Introduction

ST9500MH 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
- 10) Parameters adjustable: there is a frequency modulator to connect with TX and RX to change the bandwidth, frequency and so on.



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 | 130g |
| Dimension | 75*55*35mm |



RX Parameters

| Power | |
|---------------------|---------------------------|
| Working Voltage | DC12V |
| Working Current | 2A |
| RF | |
| Working Frequency | 160MHz~860MHz |
| Output Power | 30dBm |
| Modulation | COFDM |
| 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 |
| Receive Sensitivity | |
| QPSK/8MHz | -97±1dbm |
| QPSK 6MHz | -98±1dbm |
| Antenna | |
| SMA | Double Antenna |
| Video Record | |
| Video Record | USB |
| Indicator & Keys | |
| Led Lights | Power/RF/Video Recording |
| Key 1 | Parameters Setting Switch |
| Key 2 | Video Recording Switch |
| Weight & Dimension | |
| Weight | 248g |
| Dimension | 109*86*40mm |

