MV2025 TTLE
Mini Transmitter

MV2025R/YJBK
Multifunctional Receiver

System Introduction

The COFDM mini transmitter (MV2025 TTLE) is a new concept in remote surveillance, designed specially to meet the special requirements of covert missions. The equipment is highly integrated and can realize wireless video transmission in mobile and NLOS (Non line-of-sight) conditions. With professional clothes and pinhole camera, it can be used in public security bureau or security department to finish covert missions. The transmission range can be up to 30km in LOS (line-of-sight) condition.

Transmitter Features

◆COFDM modulation, stable transmission
◆Transmission security by encryption of AES128 bit/ ALLTECH Basic Scrambling
◆MPEG-2 video compression
◆High capacity of Lithium battery for power supply
◆Modular design and highly integrated
◆Adjustable working frequency
◆High strength aluminum enclosure, dustproof, waterproof and shockproof
◆NLOS (Non line-of-sight) transmission.
The transmission range is more than 30Km in LOS (line-of-sight) condition
◆Good transmission with high definition video and stereo audio

Product Application

By using a pinhole camera, the first responder can get live scenes. Then the mini transmitter transmits real-time video to the receiving center. In the receiving center we use a portable multifunctional suitcase receiver that can record the real-time video by USB interface and control the PTZ in NLOS (non line-of-sight) condition

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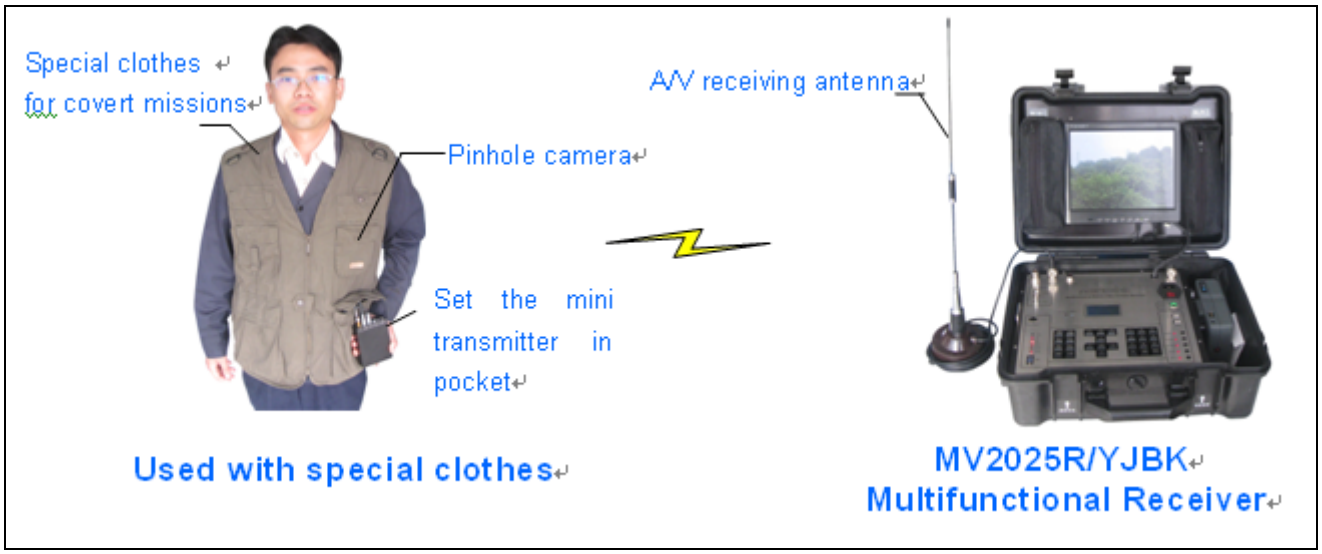

Transmitter Specification

Frequency	300-400MHz, 400~800MHz（customized）, 1.0~1.6GHz（Customized）, 2.3G~2.5 GHz（customized）
Power output	500mW
Bandwidth	8 MHz、7MHz、6MHz、2.5 MHz、1.25MHz(optional)
Modulation	COFDM
Constellation	QPSK，16QAM，64QAM (optional)
Carrier	2K
FEC	1/2，2/3，3/4，5/6, 7/8(optional)
Guard interval	1/32，1/16，1/8，1/4(optional)
Video compression	MPEG2 4：2：0 MPEG2, MPEG4 (optional @ 1.25/2.5MHz）
Latency	< 100ms
Motion speed	>280km/h
Li-battery	DC10.8V /1800mAh
Battery charger	12.6V/2A
RF interface	SMA
Ambient humidity	⩾95%
Temperature	-40° C~+45° C
Weight	Transmitter：0.27Kg Battery：0.22 Kg
Dimension	Transmitter：109.5mm*85mm*17mm Battery：113mm* 85mm*13.2mm Transmitter and Battery combined: 113mm*85mm*30mm

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Portable Receiver Specification

Bandwidth	6/7/8 MHz ， 1.25/2.5MHZ (optional)
RF level	-94dBm~-20dBm @6/7/8MHZ, -105dBm @1.25MHZ
RF impedance	50Ω
Feed voltage	DC 10V~12V
Constellation	QPSK，16QAM，64QAM (optional)
FEC	1/2，2/3，3/4，5/6, 7/8 (optional)
Carrier	2K
Guard interval	1/32，1/16，1/8，1/4 (optional)
Video decoding	ISO/IEC138182 (MPEG2 video) MP@ML
Decryption	AES 128 bit / ALLTECH Basic scrambling, RS232 serial port for configuration
Monitor size	10.4”
Resolution	720 x576
Aspect ratio	4:3
Audio output	Stereo unbalanced(300/200mV)
A/V output interface	2 Audio outputs+1 Video output
Video record	H.264
USB interface	USB2.0(Flish disk can be connected)
Control Protocol	PELCO-P/D
Control frequency	433MHz
Control modulation	GFSK
Power supply	Lithium or 220V/AC
Working current	<2.5A @DC 12.5V
Temperature	-20° C~+50° C
Dimension	460mm*370mm*180mm
Weight	11.5kg (with battery)

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