



**MV2000TKMD/MV2025TKME**  
**Camera Mountable Transmitter**



**MV2025RJ7**  
**Rack Mountable Receiver**

### **Introduction:**

This product is a new kind of broadband wireless video equipment that adopts the latest technologies of COFDM modulation and MPEG-2 video compression that can complete video transmission in high-speed motion and NLOS (non line-of-sight) conditions. The diversity receiving technology greatly improves the receiving quality in all conditions. This transmitter is specially designed to meet all necessary transmission requirements of broadcasting standard .It has been widely used in many fields such as: Police Forces, First Responders, Security Services, Fire Services, Port Security, Homeland Security, Traffic Management, Police Technical Support Units, Special Forces, Military Command and Control Posts, Airport, Border Control, Major Incident Support etc.

### **Main Features:**

- Lithium battery for power supply
- Convenient to be carried and installed
- COFDM modulation and MPEG-2 video compression
- Firm enclosure with built-in cooling fans, waterproof and shockproof
- Great security by encryption of AES 128 bit/ALLTECH Basic Scrambling
- Modular design and highly integrated
- Good transmission with high definition image and stereo audio
- Adjustable working frequency, LCD board displays the working frequency
- Stable transmission in NLOS(non line-of-sight)and high speed mobile conditions.
- The transmission range is more than 50km in LOS (line-of-sight) environment

**Product Application:****Backpack****Used with the backpack**

This equipment can realize the wireless transmission with high definition video and stereo audio in NLOS (Non line-of-sight) condition. The first responder can carry the equipment to enter accident ground and then the transmitter send the camera's digital, compressed signals to the commanding center.



## Transmitter Specification

DC Input	DC12.5V~DC16.8V
Working Current	≤3.8A@DC12.5V
RS232 Control Interface	Standard RS232 level, 9600, 8, N, 1
RS232 Data Interface	Standard RS232 level, supporting 1200~115200
Modulation	COFDM
Constellation	QPSK, 16QAM, 64QAM (optional)
FEC	1/2, 2/3, 3/4, 5/6,7/8 (optional)
Guard Interval	1/32, 1/16, 1/8, 1/4 (optional)
Bandwidth	MV2000TKMD: 6/7/8MHz; MV2025TKME: 1.25/2.5MHz, 6/7/8MHz (optional)
Carrier	2K
Frequency	300MHz-399MHz,400-500MHz (customized),
	560MHz-760MHz,760MHz-860MHz (customized) ,
	1.0-1.4GHz (customized) ,2.3-2.5GHz (customized)
	Frequency is adjustable continuously
Power Control	27-33dBm(selectable) in 1dB step
	≤2dB (full frequency range );
Encryption	AES 128 bit / ALLTECH Basic scrambling
	RS232 serial port for configuration
Power Flatness	≤0.5dB (within 8MHz)
CNR	≥-30dB @ 30dBm power output
Second Harmonic	≤-43dB
Video Signal	1Vp-p@75Ω, PAL
Resolution	720x576 @ 8MHz, 352x288 @ 1.25MHz
Video Rate	15Mbps(MAX)
CBER	<2.0E-4
Battery	2.5 hours continuous working time
Dimension	193mm*116mm*66mm

## Receiver Specification

Rx Frequency	170~860MHz VHF & UHF
Bandwidth	6/7/8MHz, 2.5/1.25MHz (optional)
RF Level Input	-92dBm~-20dBm / -105dBm~-20dBm
RF Impedance	50Ω



## Camera-mountable Transmission System

RF Interface	N female
Modulation	COFDM
Constellation	QPSK, 16QAM, 64QAM (optional)
FEC	1/2, 2/3, 3/4, 5/6,7/8 (optional)
Carrier	2K, 8K
Guard Interval	1/32, 1/16, 1/8, 1/4 (optional)
Video Decoding	ISO/IEC13818-2 MPEG-2MP@ML
Aspect Ratio	4:3, 16:9
Resolution	720x576 @ 8MHz, 352x288 @ 1.25MHz
Audio Output	Stereo unbalanced (300/200 mV)
AV Output	2 audio+ 2 video
Decryption	AES 128 bit / ALLTECH Basic scrambling
	RS232 serial port for configuration
Working Voltage	AC220V / DC12V
Temperature	-20°C~+50°C
Dimension	480mm*260mm*44mm (1U Aluminium alloy box)
Weight	3.5 kg