



**MV2000TJ20F/MV2025TJ20E**  
**Vehicle Mountable Transmitter**



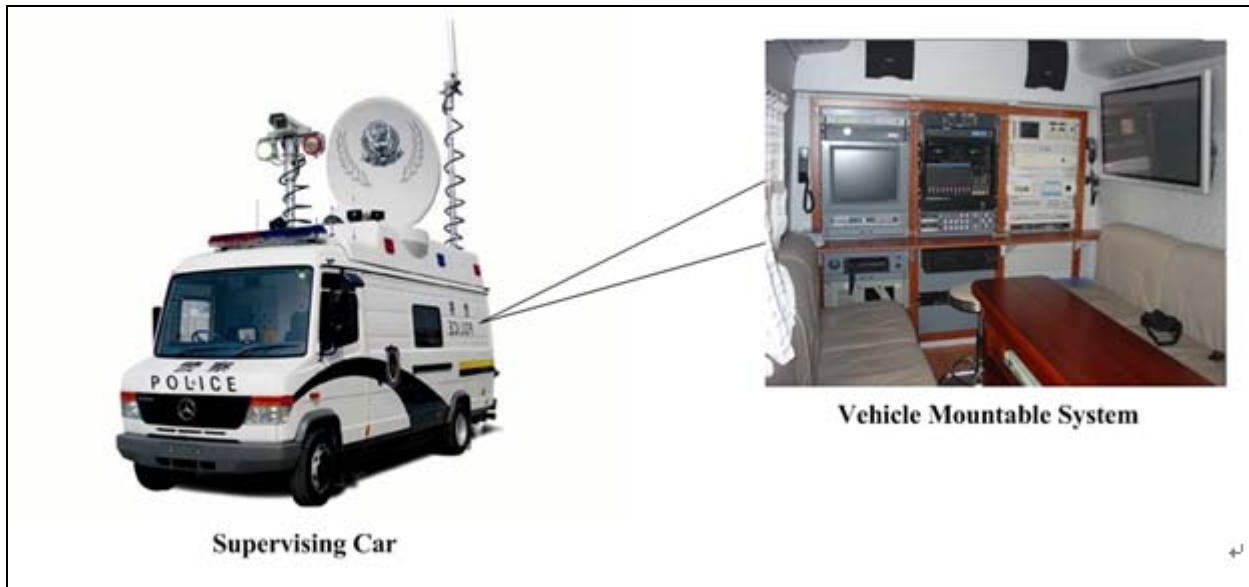
**MV2025RJ7**  
**Rack Mountable Receiver**

## Introduction:

The vehicle mountable wireless video transmitter is the ideal solution for establishing rugged wireless video links in all environments including high-speed motion and urban environments. Especially, the latest technologies of COFDM modulation and MPEG-2/MPEG-4 video compression ensure high quality of NLOS (non line-of-sight) transmission. This system is high-powered and can realize longer transmission range with stable, real-time and high definition images. This product can be mounted in a car or helicopter to transmit real-time audio and video to the commanding center.

## Product Application and Features:

- Inset high-powered amplifier and cooling fans
- Stable transmission with omni-directional antenna
- COFDM modulation and MPEG-2 video compression
- Adjustable working frequency, LCD board displays the working frequency
- Great security by encryption of AES 128 bit/ALLTECH Basic Scrambling
- Rack mountable design, can be installed in a car or helicopter
- Good transmission with high definition image and stereo audio
- Stable transmission in NLOS(non line-of-sight)and high speed mobile condition.
- The transmission range is 3-50km in NLOS(non line-of-sight)condition and more than 50km in LOS(line-of-sight)condition



In the urban and mountainous environments, the vehicle mountable wireless video transmitter is suitable equipment that can realize the NLOS (non line-of-sight) transmission and can work well in high-speed mobile condition. Furthermore, this system is high-powered and can meet the requirement of longer-range transmission (3-50 km in NLOS condition).



**Transmitter Specification**

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
Bandwidth	MV2000TJ20F: 6/7/8 MHz; MV2025TJ20E : 1.25/2.5MHz , 6/7/8 MHz (optional)
Power Output	41.5dBm~43.5dBm
Impedance	50 Ω
RF Interface	N female
Modulation	COFDM
Constellation	QPSK, 16QAM, 64QAM (optional)
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval	1/4, 1/8, 1/16, 1/32
Coding Mode	MPEG-2 / MPEG-4 (optional)
Audio Input	Stereo
Antenna Interface	x1
Audio Input	x2
Video Input	1Vp-p~1.2Vp-p@75Ω
Encryption:	AES 128 bit / ALLTECH Basic scrambling
	RS232 serial port for configuration
Temperature	-25°C~ +45°C
AC Input	AC220V50Hz ≤ 2A@AC220V
Power Consumption	160W ( Max )
Dimension	467mm*425mm*132mm (3U Aluminium alloy box)
Weight	13.8kg

**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
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



## Vehicle Mountable Transmission System

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