



**MV2025SS2FA-BEJ2**  
**Portable Video Repeater**



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

## **Introduction:**

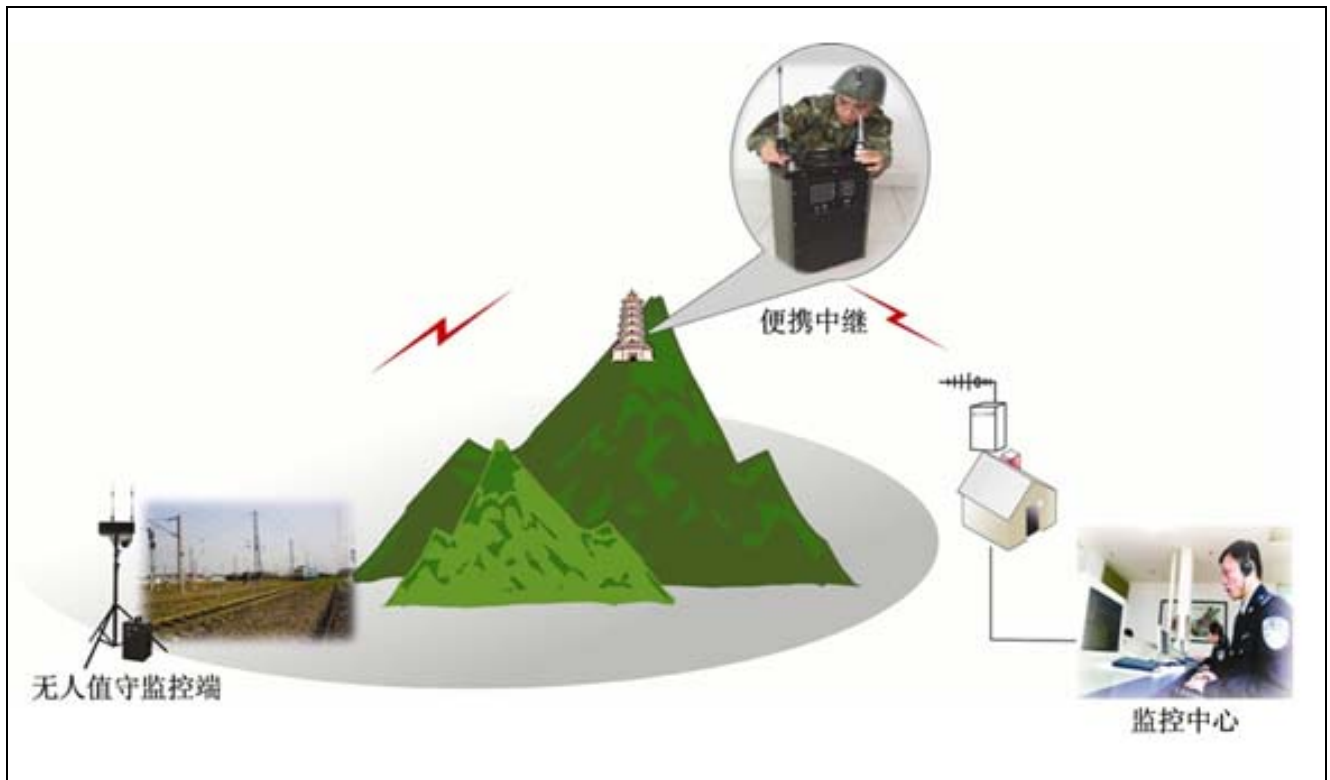
The portable repeater is developed with the latest technologies of COFDM modulation and MPEG-2 video compression. This equipment can realize wireless transmission with high definition video and stereo audio. Especially, in the urban and mountainous environments, the portable repeater is the ideal solution for the NLOS (non line-of-sight) transmission. Since its powerful function and it is easy to be carried and installed everywhere, the repeater has many application fields such as: Broadcasting, Military, Public Security, Forest Fire Prevention, Firefighting, Oil and Gas Industries, Traffic Police, Disaster Management, Railway.

## **Main Features:**

- Inset high-performance amplifier
- Lithium battery for power supply
- Convenient to be carried and installed
- COFDM modulation and MPEG-2 video compression
- Great security by encryption of AES 128 bit/ALLTECH Basic Scrambling
- Good transmission with high definition image and stereo audio
- Adjustable working frequency, LCD board displays the working frequency
- Firm aluminium enclosure with built-in cooling fans, waterproof and shockproof
- Stable transmission in NLOS(non line-of-sight)and high speed mobile condition.
- Transmission range can be up to 100km in LOS(line-of-sight)environment

### Product Application:

For the wireless transmission system, if there are high buildings and mountains between the first responder and the receiving center, the transmission quality is easy to be disturbed. We can use the portable repeater to relay the camera's output signals from the first responder to the commanding center.



### Repeater Specification:

Rx Frequency	170MHz~860MHz
Rx Bandwidth	6/7/8MHz, 2.5/1.25MHz (optional)
Rx Setting Frequency	170MHz~860MHz
Rx Sensitivity	≤-105dBm @ 1.25MHz; ≤-94dBm @ 8MHz
Rx Default Frequency	300MHz~450MHz
Rx Voltage Output	DC12.5V±0.5V
Rx Current Output	400mA (MAX)
Tx Frequency	550MHz~810MHz
Tx Bandwidth	6/7/8MHz, 2.5/1.25MHz (optional)
Tx Setting range	560MHz~760MHz
Tx Default frequency	custom-made



## Portable Relay System

Tx Power Output	27.5dBm~29.5dBm
Tx Flatness	$\leq 1\text{dB @ } 8\text{MHz}$
Tx CNR	$\geq 28\text{dB @ } 27.5\text{dBm}$ power output
Second Harmonic	$\leq -43\text{dB}$
Encryption:	AES 128 bit / ALLTECH Basic scrambling
	RS232 serial port for configuration
Battery	14.8VDC/32AH(6 hours continuous working time )
DC Input	DC12.5V~DC16.8V
Working Current	$\leq 3.5\text{A@DC12.5V}$
Dimension	360mm*268mm*127mm
Weight	9.5 kg (including the battery)

### 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	50 $\Omega$
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

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