



VS-5700

Mobile Video Transmission System



- NLOS(non-line-of-sight) Transmission
- Receiving Steadily in High-Speed Movement
- Analog & Digital Video Output
- LVDS Cascade
- High Privacy
- High Quality Image



VS-5700 wireless video transmission system brings an on-site transmission system to help you to make remote analysis and decision. With outstanding diffraction performance, VS-5700 always achieves high image effect and stable transmission even over a long distance. Information security can also be guaranteed with the advanced encryption technology. VS-5700 can be widely used to cope with terrorist attacks, violent crimes and various major emergencies, like industrial disasters, transportation accidents and natural disasters such as fire, earthquake, snow storm, flood and hurricane. It greatly promotes the reaction, command and decision-making capabilities of on-site persons from various industries, to such incidents.

VS-5700

Technical Highlights

■ NLOS(non-line-of-sight) Transmission

VS-5700 adopts COFDM(Coded Orthogonal Frequency Division Multiplexed) modulation scheme, which involves advanced technologies like orthogonal multi-carrier, to achieve capabilities of multi-path interference resistance, long NLOS transmission distance, superior diffraction and penetration performance. It is ideal for use in NLOS environment like high-density urban areas, forest and mountainous regions.

■ High Quality Image

VS-5700 can even transmit at a rate of 25 fps(frame per second), bring you outstanding image quality. A flexible and adaptive coding method can ensure consistent and coherent images, even under abominable or poor transmission environment. The image can remain its high definition and fluency on large-size LCD in the command center.

■ Receiving Steadily in High-Speed Movement

VS-5700 can realize a high speed of 300 KM/h. Due to COFDM modulation scheme, signals can be transmitted steadily. Therefore, VS-5700 can be mounted on high-speed vehicles like cars or helicopters. ▶

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■ High Privacy

VS-5700 supports high level encryption standard to encrypt TS stream and maintain high privacy.

■ Analog & Digital Video Output

All the receivers of VS-5700, there are analog and digital video output interface.

■ LVDS Cascade

In big area coverage application, all the video, audio and other data transfer in IP data with additional convertor, it can reduce the amount of A/D conversions to insure the image quality.

System Applications

Mobile Command

At sudden incidents or occur, the emergency vehicles can not get into the spot, in such cases, VS-5700 can be carried by a person into the spot to collect the information. Through the vehicle receiver, all situations can be learned on a real-time basis, and an on-site mobile command system can be established to resolve the incident.

Dispatching Vehicle Repeater

In areas beyond the base station coverage, VS-5700 mounted on a dispatching vehicle can transmit the front-line video to the command center, so as to realize wider communication coverage and to achieve remote monitor.

Base Station Networking

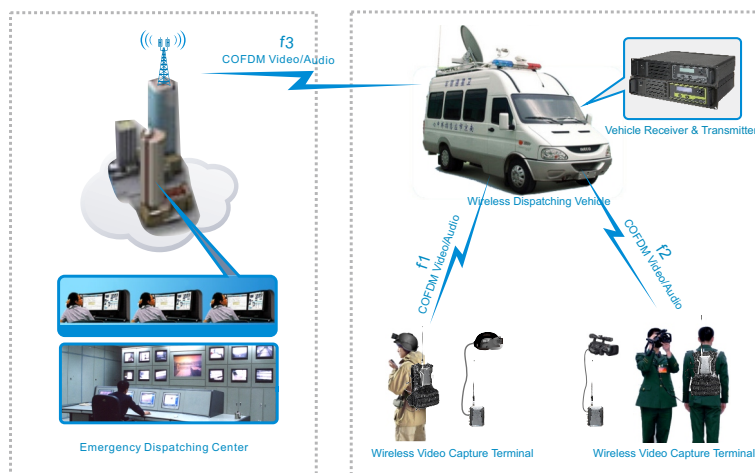
Locate the receivers at several high places (the exact number of such places depends on the actual coverage) across the city. In case of security activities or sudden incidents, VS-5700 can realize real-time monitor of the progress.

Application Fields

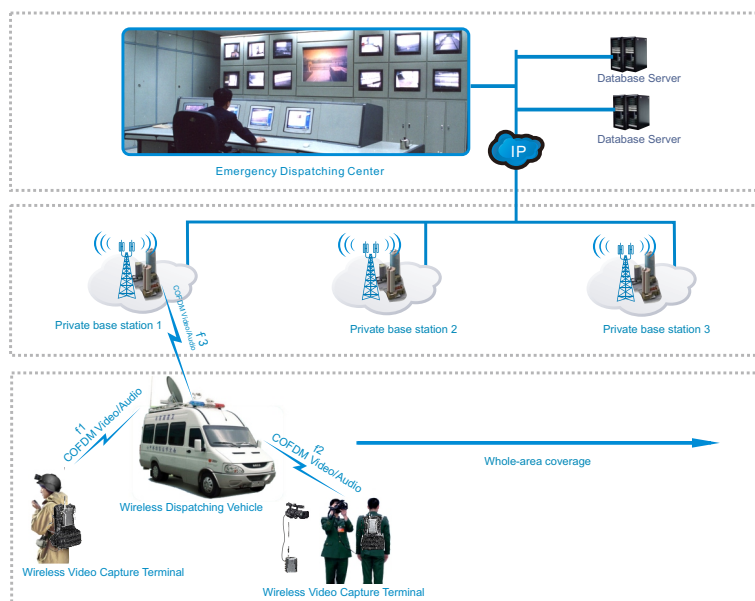
Accident rescue, criminal investigation, field operations, firefighting services, police services, transport rescue, oil field, mine, railway, justice system, power authority, etc.



Mobile Command



Dispatching Vehicle Repeater



Base Station Networking



VS-5700 Specifications

Basic parameters	Item	Manpack transmitter	Vehicle mounted transmitter	Vehicle mounted/Base station receiver
	Frequency range	201MHz-850MHz (Customized)		
	Channel bandwidth	2MHz (SD)/8MHz (HD)		
	Power output	LOW/High(2W)	20W (Adjustable)	/
	TX frequency allowable error	$\leq 1 \times 10^{-6}$		/
	Tx output power allowable error	$\leq \pm 1\text{ dB}$		/
	RX sensitivity	/		$\leq -104\text{dBm}@2\text{MHz}; \leq -95\text{dBm}@8\text{MHz}$
	Transmission bit rate	1.46Mbps@2MHz; 5.4Mbps@8MHz		
	Movement speed	300Km/h		
	Channel adjustment	8ch (SD)/1ch (HD)		
Video/audio parameters	Antenna connector	UHF female/50ohm	N female/50ohm	
	Image format and quality	SD: PAL & NTSC; HD: 720P60, 1080I50, 1080P25, 1080P30, 1080I60 & 720P50		
	Compression standard	H.264		
	Encoding velocity	1.46Mbps@2MHz; 5.4Mbps@8MHz		
	Voice input/output	Dual sound track 12dBm		
	Voice coding	Dual sound track 12dBm		/
	Video/audio interface	RCA@75 Ω; HDMI		
Operating environment	Control interace	/	RS232 @ DB9 female	
	Encryption	32-bit or higher level (Customized)		
	Power supply	14.8V, 8800mAh	220VAC	220VAC; 12VDC
	Power consumption	$\leq 1.7\text{A}@14.8\text{V}$	$\leq 1\text{A}@220\text{VAC}$	$\leq 2\text{A}@12\text{V}$
	Operating temperature	$-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$		
	Operating humidity	80%		



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