

## VS-108R User Manual

### ◆ Introduction:

It does not increase systematic fabrication cost on short and middle distance transmission, but simplifies project wiring, etc. instead. So, in high clear VGA monitoring system, high clear video network advertising system, multimedia network teaching system etc, it has obvious advantages in transmitting with **paired line**(twisted pair line):

1. It transmits long distance with high quality. Because advanced technology is adopted in the **paired line** (twisted pair line) transceiver, it compensates the decay and decay difference among different frequency to the signal range of the video of paired line extremely well, keeps the luminance, color and real-time character of primitive VGA signal, and the picture signal almost has no distortion in transmitting 150m or farther.
2. It is convenient in wiring and **rises**(it improves) cable utilization ratio. One **paired line**(twisted pair line) can not only transmit high clear VGA picture signal, but also transmit the stereoscopic sound signal of high-fidelity. In addition, there are CAT5 **shield paired line**(shielded twisted pair line) extensively in the **Building**(buildings), just use one line and needn't wire in addition. Even it needs **wire again**(more wire), CAT5 lines are easier than the optic fibre, coaxial cable, it simplifies the project wiring difficulty greatly, improves the utilization ratio of the cable, prevents trouble brought by wiring various lines with various signals, and reduces the fabrication cost of the project.
3. It has strong anti-interference ability. The **paired line**(twisted pair line) can inhibit the common interference effectively. Even in strong interference environment, the **paired line**(twisted pair line) can transmit the fairly good picture signal, moreover, the **paired lines**(twisted pair line) will not interfere with each other.
4. It is easy to use with high reliability. Use the **paired line**(twisted pair line) to transmit the high clear video signal, insert the special-purpose transmitter in the signal source, insert the special-purpose receiver into the display device far away. The transmission equipment price of this kind of **paired line**(twisted pair line) is cheap, it is very **simple**(easy) to use. The user does not need professional knowledge and much operation, just install one time, it can work in a long time steadily.
5. The price is cheap and it is easy to get materials. Since user can use ordinary CAT5 **paired line**(twisted pair line), all parts are all easy to buy, and the price is very cheap, bringing great convenience for the project.

### ◆ Application:

Liquid crystal and plasma multimedia advertising project  
The large screen LCD curtain wall project  
Display system of the large-scale projection apparatus  
Control system of the industrial automation  
Video conference system of the large-and-middle-scale  
Display system of medical treatment guards  
Bank, securities, financial system  
VGA district monitoring system  
Multimedia network tutoring system  
Long distance KVM extender and switch  
Remote network monitoring of servers  
Large-and-middle-scale central control system

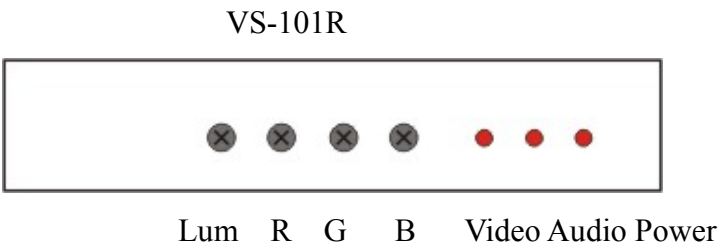
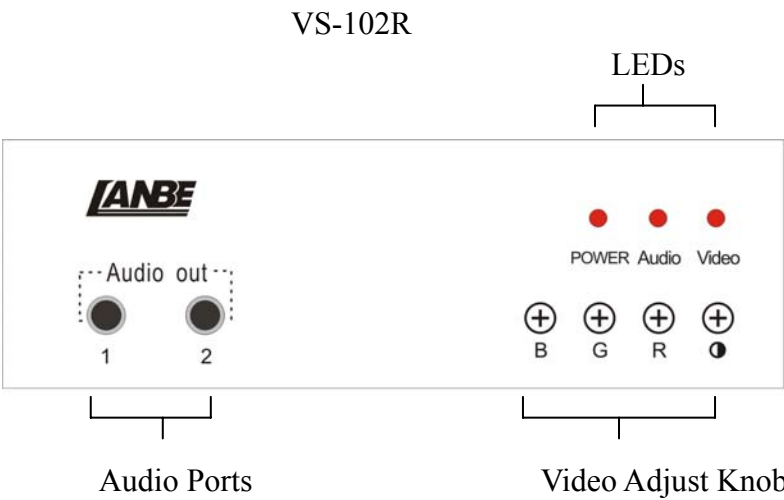
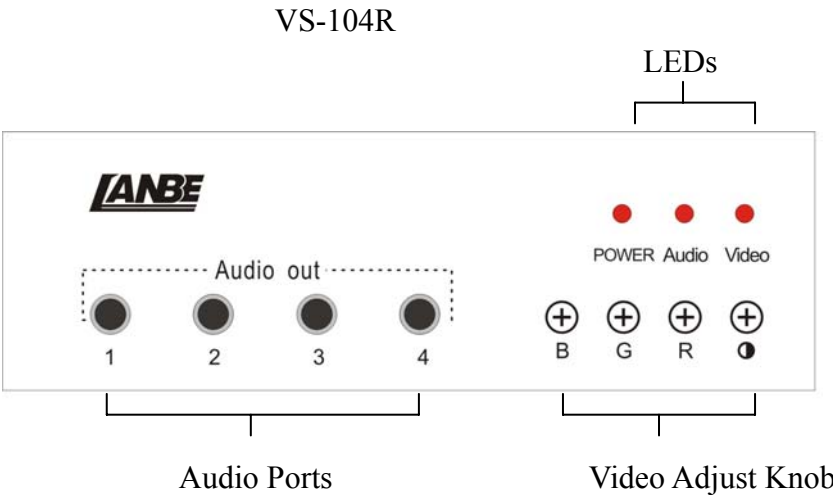
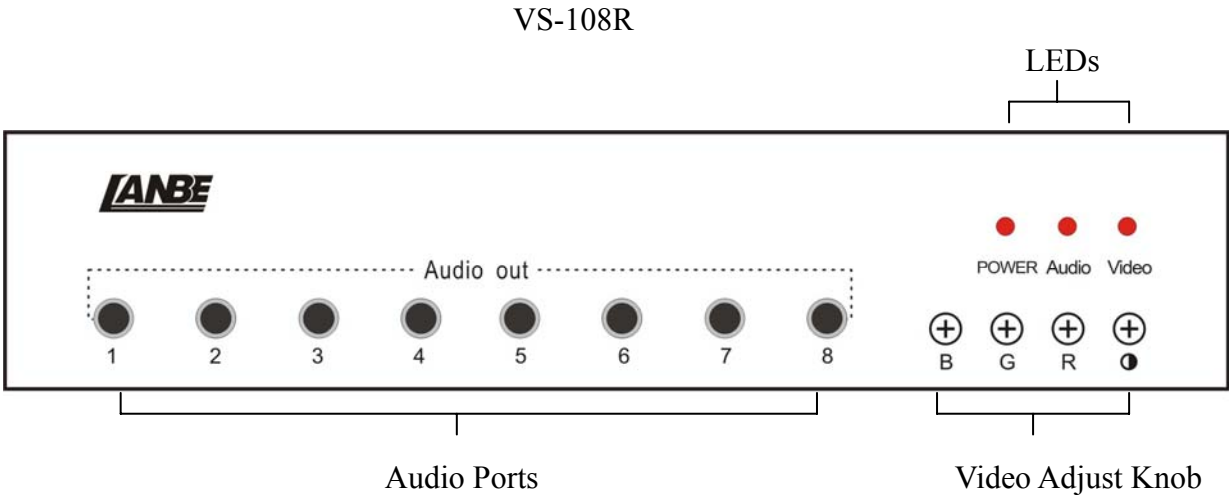
### ◆ Input & Output Port:

Input: RJ45 Plug

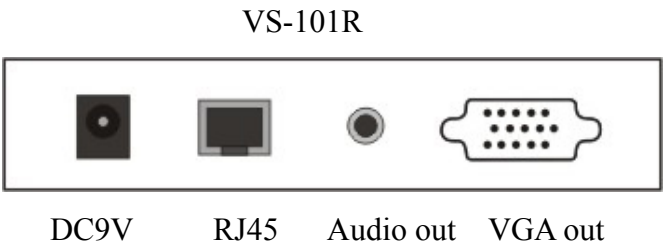
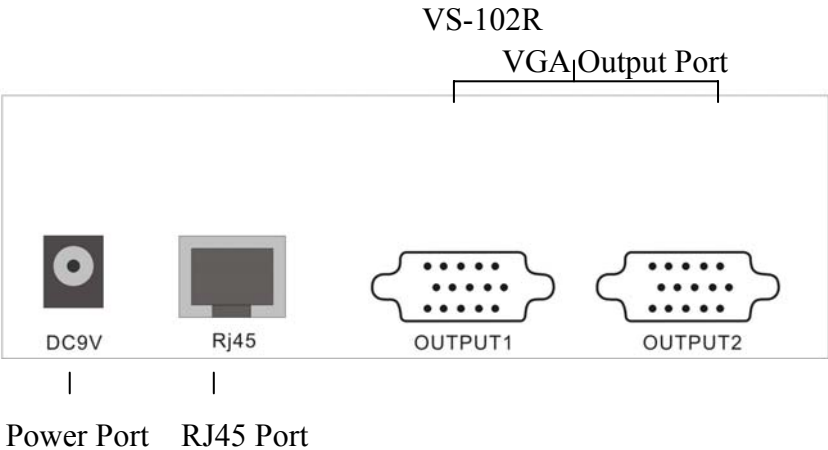
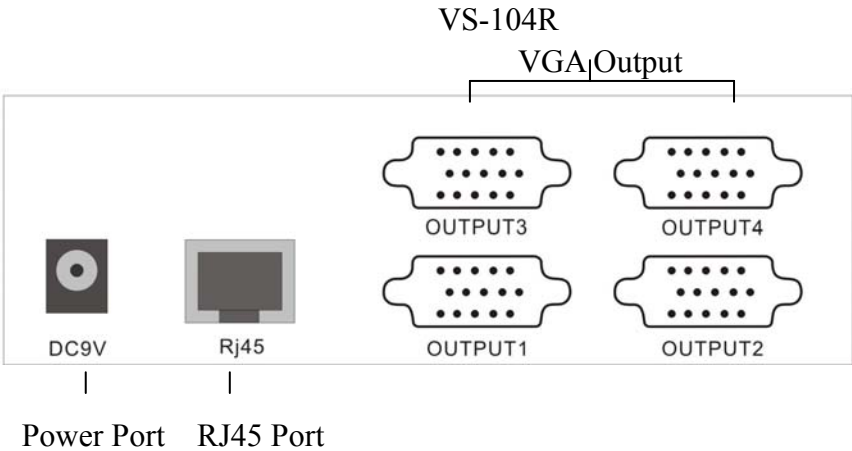
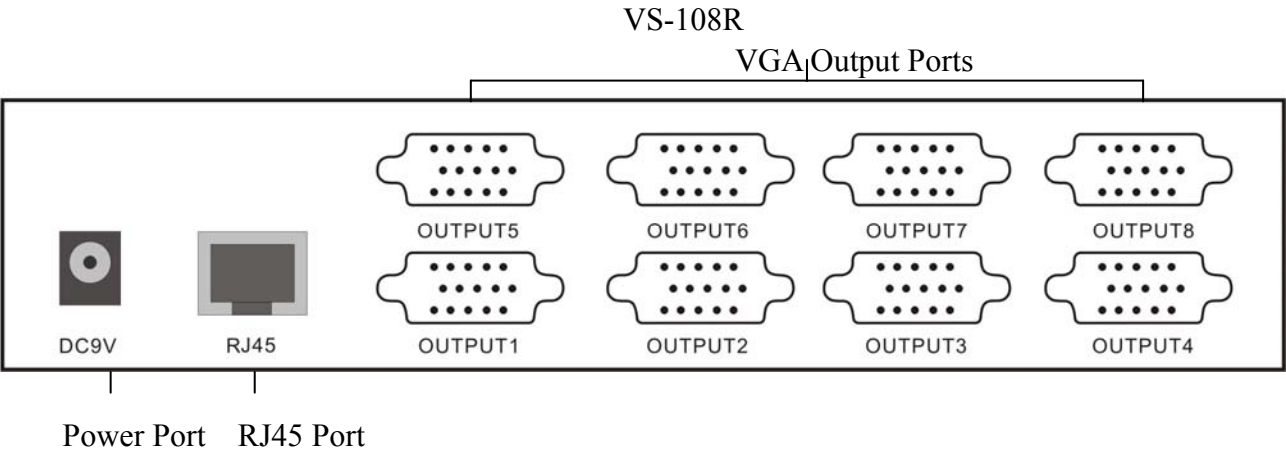
Output: VGA Female + Audio Terminal

◆ Panel Sketch Map:

1. Front Panel



2. Rear Panel



◆ Specification:

Trait	Bandwidth	250MHz (−3dB) full loaded(load)
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		0-100MHz +0.1dB to -0.1dB
		0-130MHz +6dB to -0.8dB
	Brightness Color Interfere	-50dB@5MHz, -45dB@10MHz
	Differential phase Error	0.1%,3.8-4.43MHz
	Differential Gain Error	0.1,3.8-4.43MHz
	Largest transmit time delay	5ns (+1ns)
Video Signal Input	Signal type	VGA signal
	Connection type	RJ45 interface input
	Minimum input level positive	0.5Vp-p
	Maximum input level positive	2.0Vp-p
	I/O impedance	75Ω
	Echo Wasting	-30dB@5MHz
	Largest DC compensate	1.5V
	Synchronous Phase-lock	0.3V-0.4Vp-p
Video Signal Output	Signal Type	VGA Signal
	Connection Type	VGA 15HDF Interface Output
	Minimum input level positive	0.5Vp-p
	Maximum input level positive	2.0Vp-p
	I/O impedance	75Ω
	Echo wasting	-30dB@5MHz
	Largest DC compensate	+5Mv-0
	Maximum Level (600Ω)	+15dBm
Spec	Power Supply	Input 220V/50Hz, Output DC9V
	MTTF	30000hours

◆ **Notice:**

In order to insure the equipment can work normally, please operate as following steps in installation, use and maintaining: (In order to make sure the equipment work normally, please follow the directions in installation, use and maintenance:)

- 1). Please insure power supply to equipment should be normally in equipment's installation and running, to operate after the equipment to finish initialization:( When installing and operating the device, please make sure proper power supply first, and then do other operations after it is initialized.)
- 2). Please use interface defined and suited connection cable, as the transmission of signal and power should be via special connection cable; if use un-suited connection cable maybe induce the system couldn't work normally, even damage the equipment:( As signal and power transfer need custom cable, please use matched cable, unmatched cable may cause system work improperly or even damage the device.)

- 3). Please noted the aeration for the equipment in using time, for fear to damage the equipment as high temperature;( Keep airy during operation to prevent high temperature.)
- 4). The equipment should be placed in (under) a dry environment;
- 5). Un-professional person don't open up the DOS shell at random, for fear to damage the equipment.( Please do not open the device without permission of professionals)

FCC NOTE:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC NOTE:

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.