

**High Performance Industrial
LCD Monitor 12,1”
VSVM-105**

User's Manual

Caution and Warning

All safety and operating instructions should be read before the unit is operated, and retained for future reference.

All operating and use instructions should be followed, and all warnings on the unit and in the operating instructions should be adhered to.



WARNING

This sign is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product that may shock to person



CAUTION

This sign is intended to alert the user to presence of important operating and maintenance(servicing) instructions



WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS MONITOR RO
RAIN OR MOISTURE

- Do not remove cover(or back).
 - No internal parts can be serviced by users.
-



CAUTION

Installation should be performed by qualified service personnel

Caution and Warning



Caution sign



Warning sign



- This display should be installed on a stable horizontal base.
-

-
- Do not use this product near water.
 - Adequate ventilation must be maintained to ensure reliable and continued operation and to protect the monitor from overheating.
 - Do not block ventilation slots and openings with objects or install the monitor in a place where ventilation may be obstructed.
 - Do not attempt to service this unit yourself.
 - Removal of the monitor cover may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
 - When cleaning, use only a neutral detergent cleaner with a soft damp cloth. Do not spray with liquid or aerosol cleaners



- Do not expose this monitor to direct sunlight or heat. Hot air may cause damage to the cabinet and other parts.
- Do not install this monitor near a motor or transformer where strong magnetism is generated. Images on the monitor will be distorted and the color irregular.
- Do not allow metal pieces or objects of any kind fall into the monitor through ventilation holes.
- Unplug this product from the wall outlet and refer servicing to qualified service personnel in the event that:
 1. Liquid is spilled into the product or the product is exposed to rain or water.
 2. The product does not operate normally when the operating instructions are followed.
 3. The product has been dropped or the cabinet has been damaged.
 4. The product exhibits a distinct change in performance, indicating a need for service.
 5. The power cord or plug is frayed or damaged.

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1 INTRODUCTION

Welcome to a fantastic new technology which will completely bring you excellent image experience when you watch the monitor. The following sections describe just a few of the major advantages of this industrial LCD monitor. You'll discover more of its wonderful features as you use it.

Excellent Image:

- Two 3D Adaptive Comb Filter for Luma-Chroma separation
- Adaptive 3D Noise Reductions, Depth of field
- Richer color, Dynamic motion, Sensational sharpness, Deep contrast
- High Purity Color filters
- High performance and programmable sharpening filters with Noise Coring
- Excellent Brightness and Contrast
- Non-linear Chroma enhancement
- Non-linear Luma enhancement
- Flesh Tone correction

Perfect Function:

Common Function:

- Low power consumption when standby, memory of present state to recover from sudden power-off
- Many Signals Supported: VGA-analog , S-video etc.
- VGA modes Supported: 1280X1024, 1024X768, 800X600, 640X480
- 1 channel S-video
- 5Key OSD interface.

Special functions for video/audio application:

3D comb filter, de-interlace, overscan, auto impedance switch for looping video connection.

The above-mentioned function may differ according to the model that you've purchased. Please refer to model name for accurate specification of your unit.

Supported installation method:

Table VESA wall and RACK mounting application.

Advantages:

High definition performance in image and video display;

Low power consumption, Low radiation and reduced flickering compared to the traditional CRT monitors minimize hazards to your ;

Professional design to meet the require in security fields application;

2 Installation

CHECK LIST

When you unpack your LCD monitor, make sure the following items are included in the box and are in good condition. If you find that any of these items are damaged or missing, please contact your dealer immediately.



■ One LCD monitor



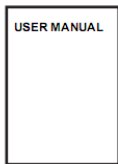
■ AC power cord



■ power Adaptor(Optional)



■ The user manual



■ Remote controller



Stand (Optioal)



■ RACK mounting (Optional)



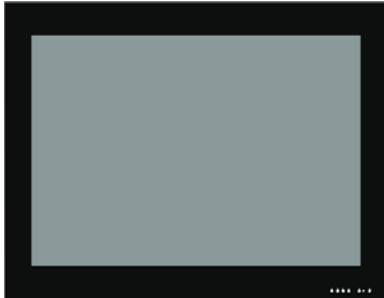
INSTALLATION

Single Monitor table stand, Wall Amount hanging and Cabinet fixing are optional for use

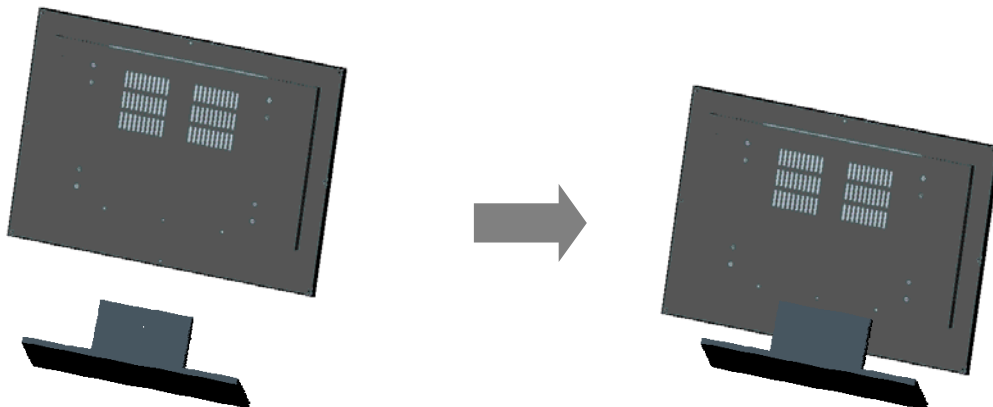
Table stand

Please refer the following steps of table stand installation.

- ① Make Sure the following parts are prepared:



- ② For the safety of the LCD panel, soft cloth should be prepared to spread on the table, the lie the monitor on it, fix the stand to the monitor as following instruction.

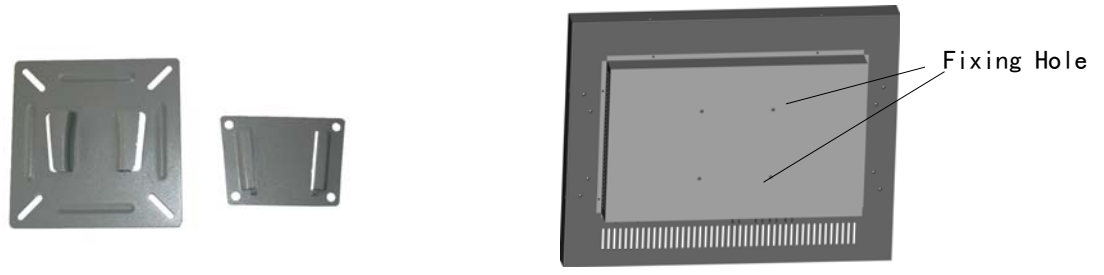


- ③ Fix the screw and stand.

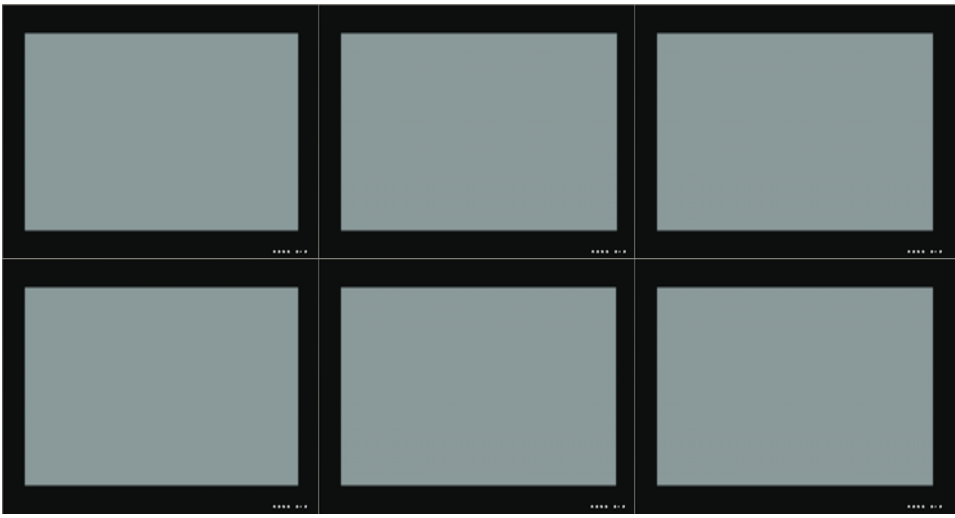


Wall Amount

Use the Wall Amount Fixing Hole can easily hang the monitor on the wall.



View effect of wall amount:



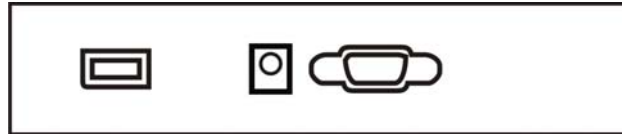
Cabinet Fixing

The Wall Amount Fixing Hole can also be used in machine cabinet fixing .

Connection

After installation, now you can connect your monitor to the video source machine. The following images are the diagrams of possible interface of your monitor which will differ accord to the model you purchased.

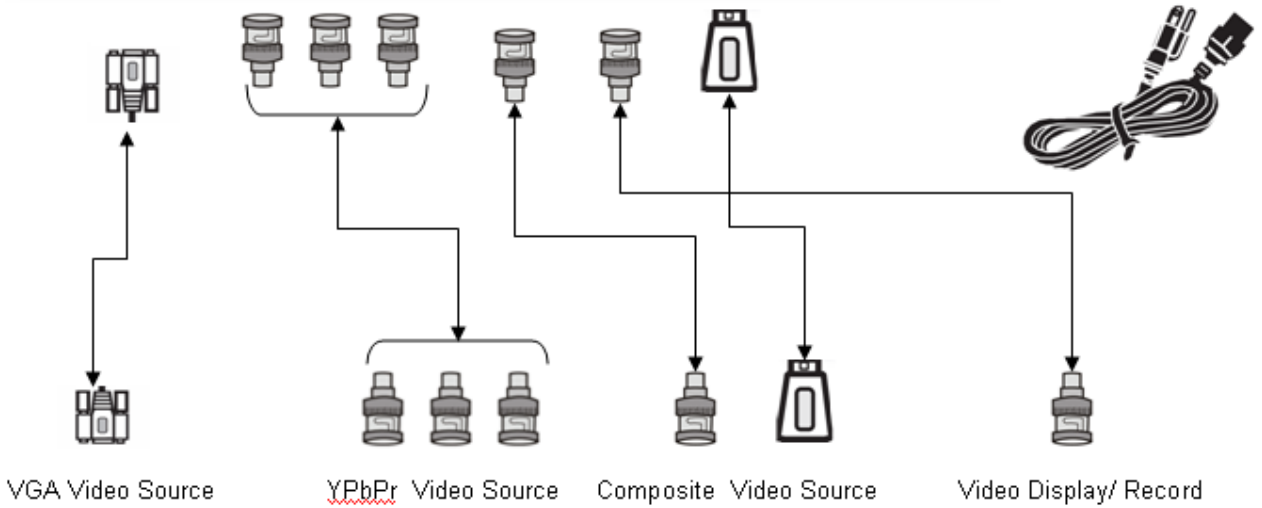
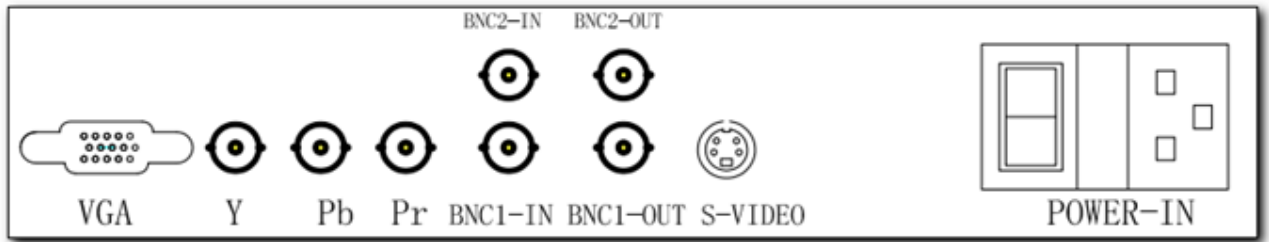
Interface diagram



Hardware Connection

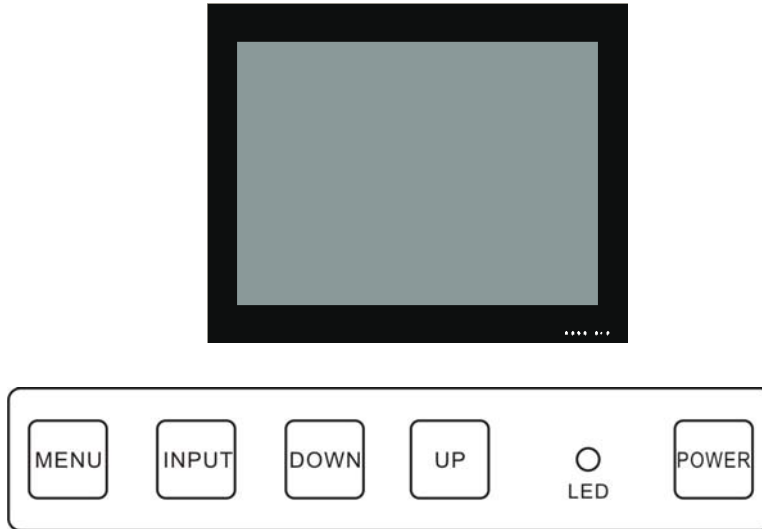
1. Before connecting any devices, please make sure that your monitor and all other equipment are turned off.
2. Place the monitor on a stable horizontal surface such as a table or a desk.
3. Attach the power cable to the monitor and then to a power outlet.
4. Connect VGA Cable at the back of the monitor, then connect the D-sub 15-pin connector located at the back of computer or VCR
5. Tighten the screws of the monitor cable until the connectors are fastened securely.
6. Connect the composite signal (video, S-video) cable from the back of the video unit to the back of the monitor.
7. Connect the Component signal (YPbPr) cable from the back of the video unit to the back of the monitor.
8. Switch on the power supply of the computer system or AV equipment then turn on the LCD monitor.

Note: This monitor also supports the “auto looping” function, permitting the connection of another monitor or VCR from the output connectors.



3 Common Operation

Definition of the Buttons board



LED

If the LED indicator lamp is green, the unit is in normal operating mode.

INPUT

This button is used to select the input source when the OSD is off.

This button is also used to confirm the current selection when the OSD is on.

MENU

Enters the OSD adjustment main menu. This button is also used to exit the OSD main menu when the main menu is displayed on the screen.

DOWN

This button is used to scroll through the screen containing items to be adjusted, or to decrease the value of the item to be adjusted.

UP

This button is used to scroll through the screen containing items to be adjusted, or to increase the value of the item to be adjusted.

POWER

Press once to turn the power on when the monitor is power off, and press again to turn the power off.

Definition of the Remote Controller(NOTE:THIS PRODUCT WITHOUT REMOTE!)



Remote

1. Function buttons

- POWER Select power ON or OFF
- MUTU Switch on/off the speakers(When the product with sound function)
- PIP Switch on/off the picture-in-picture function(for special products)

2. Source buttons

- HD Select the High-Definition signal inputs
- BNC1 Select the video 1 signal inputs(composite video BNC connectors)
- BNC2 Select the video 2 signal inputs(composite video BNC connectors)
- S-VIDEO Select S-VIDEO signal inputs
- VGA Select the VGA signal inputs
- DVI Select the DVI signal inputs(When the product with DVI interface)
- YPbPr Select the YPbPr signal inputs(When the product with YPbPr interface)

3. MENU buttons

- MENU: access OSD setup interface; Return to the pre-menu page
- ▲ ▼: Turn **UP/DOWN**; Increase and Decrease the value
- ◀ ▶: select; Turn **left/right**
- INPUT Enter the submenu or source menu

Select the single input

Press **INPUT** button to exchange the source input as follow when the menu does not display.

VGA-→ SV-→VGA

Useage of the OSD

PICTURE setup

To adjust the picture display of the monitor.

- (1) Press **MENU** button to access the main menu, and default to enter PICTRUE setup interface



- (2) Then press **DOWN** button to access the PICTURE setup sub-menu.

Next, press **UP / DOWN** button to select the desired item.



- (3) Press **input** button (monitor) or **◀ ▶** (remote control) to access the screen for adjusting the selected item.

Then press **UP** or **DOWN** button to increase or decrease the value.

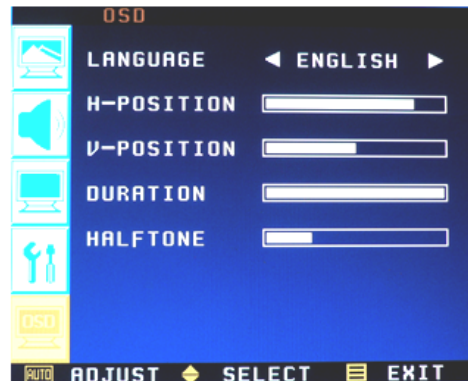


- (4) Last, press the menu button twice to return the main menu, and press the input

button to exit the osd.

OSD setup

- (1) Press Menu button to access the main menu,then press the menu button(monitor) or ► (remote control)some times to select the osd menu, and press the Down button to enter function sub-menu.



press **UP / DOWN** button to select the desired item.

- (3) Press **input** button(monitor) or ◀▶ (remote control) to access the screen for adjusting the elected item

Then press **UP** or **DOWN** button to increase or decrease the value.

- (4) Last,press the menu button twice to return the main menu,and press the input button to exit the osd.

4 Technical Specification

Item	Parameter				
Model	8.4 inch	10.4 inch	12.1 inch	15 inch	
Active area (mmxmm)	129x171	159x212	186x247	304.1x228.1	
panel	TFT-LCD				
Resolution	640x480	800x600	800x600	1024x768	
Conrast	800:1	1000:1	1100:1	1100:1	
Brightness (nits)	450cd/m2	600cd/m2	600cd/m2	600cd/m2	
Response Time	8ms	8ms	8ms	8ms	
Color	16.7M	16.7M	16.7M	16.7M	
View Angle	160/160	160/160	160/160	160/160	
Frame Rate	50Hz 60Hz 70Hz				
Composite signal input	-				
Composite signal output	-				
SV signal	SV IN				
VGA input	D-15Pin RGB x1				
Color system	PAL/NTSC				
OSD system	5Key Keyboard				
Power Input	DC12V/2A	DC12V/2A	DC12V/2A	DC12V/3A	
Power consumption	<26W	<28W	<30W	<30W	
Standby consumption	<3W				
Environment	Temperature: -10°C~60°C humidity: 20%~80%				

5 Troubleshooting Tips

In the event that you experience trouble with your monitor, check the following items before contacting the dealer from whom the monitor was purchased. The most common problems usually involve an incorrect connection from the Camera or Cables to the monitor. We recommend that you also consult your user manuals for your Camera or Cables to the monitor. equipment during the troubleshooting procedure. Do not exceed the maximum refresh rate recommended for the monitor.

Porblem	Troubleshooting Tips
No image on display screen (power LED does not light)	<ol style="list-style-type: none"> 1. Check that the power cord of the computer or AV equipment has been connected securely to the wall outlet or grounded extension cable or strip. 2. Check that the monitor power switch is "on" and the LED on the front of the monitor is lit. 3. Check that the video (signal) cable from the computer or AV equipment has been connected correctly and securely. 4. Check to ensure that the video card is firmly seated in the card slot of the computer's motherboard. 5. Check that the video input from the video card falls within the timing range of the monitor.
There is no picture (power LED is lit green)	<ul style="list-style-type: none"> -Is the monitor properly connected to the signal -Is the monitor properly selected signal input mode
The image appears distorted under VGA mode	<ul style="list-style-type: none"> - Does the signal timing correspond to monitor specifications - Perform automatic adjustment
The remote control does not work	<ul style="list-style-type: none"> -Have the batteries of the remote control run out? -Are the batteries placed in the right direction in the remote control?
Disturbances on Screen	OSD adjustment is incorrect.
"Contrast" can not be adjusted	Please check "Image" state , only in "personal" state the contrast, brightness etc can be adjustable
Colors of image on screen are abnormal	Check to ensure that the video (signal) cable from the monitor has been securely and correctly connected to the DVI, AV, and S-video connector at the back of the computer.