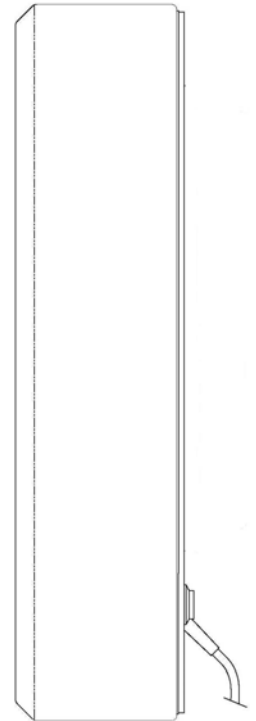
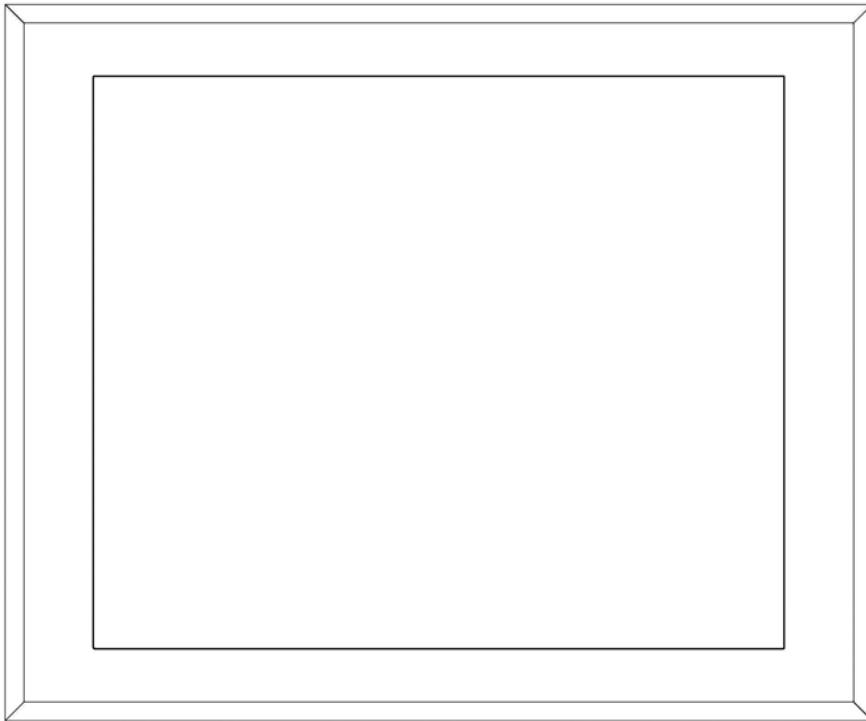




*Solutions for Demanding Applications*

**VARTeCH  
SYSTEMS INC.**



**19.0" Enclosed LCD**

**Model VT190V-VS**

**User's Guide**

Read these instructions completely before attempting to operate your new Enclosed LCD



## Revision History

Date	Rev No	Summary	Page
02/09/09	00	First Issue	

## **Safety Instructions**

- Read the Safety Instructions carefully and keep it for use later.
- The chassis metalwork of the module must be installed properly to the main earthing termination for Class 1 equipment.
- Care must be exercised in the application of the system to prevent overheating. Ensure that the ambient temperature around the system does not exceed 50°C and provide adequate means of ventilation to achieve this.
- When cleaning cut off the electrical supply at all times. Never use liquid or aerosol detergent, use a soft damp cloth instead.
- Never insert anything metallic into the enclosure. This may create an electric shock hazard or hazard from rotating fan blades.
- To avoid electric shock, never touch the inside of the system. There are no user adjustable components inside, only a qualified technician should open the enclosure's case.
- If the LCD does not operate normally – in particular, if there are any unusual sounds or smells coming from it – disconnect it immediately.
- Do not put pressure on the LCD panel screen because it is very fragile.
- Always handle the system with care when moving it.
- Take care that the system is disposed of correctly at the end of its life. If in doubt refer to your local ordinances or regulations for proper disposal.

## **Cleaning the LCD monitor**

To clean the LCD panel:

- Wipe the screen gently with a clean lens brush made of camel hair, or a soft, clean, lint free cloth. This is to remove dust and other particles without scratching the LCD panel.
- If it is still not clean, then wipe with a damp lint free cloth and blow on it to dry.
- Desirable cleaners are water, IPA (Isopropyl Alcohol) or Hexane.

Do not clean the panel with a Ketone type material (e.g. Acetone), or Ethyl alcohol, Toluene, Ethyl acid, Methyl chloride. These may permanently damage the polarizer due to chemical reaction.

Do not apply pressure to the LCD panel.

## Standard Technical Specifications:

### LCD Monitor:

<b>Size / Type</b>	19.0" SXGA TFT LCD
<b>Native Resolution</b>	1280 x 1024
<b>Contrast Ratio</b>	1000:1
<b>Viewing Angles</b>	Horizontal: 178° Vertical: 178°
<b>Pixel Pitch</b>	0.294mm
<b>Brightness (typical)</b>	250 cd/m <sup>2</sup>
<b>Response Time (typical)</b>	12ms
<b>Colors Supported</b>	16.7 million

### Touch Screen:

<b>Touch Screen</b>	Resistive
<b>Touch Screen Interface</b>	Standard: Serial Optional: USB

### Environmental:

<b>Power Input</b>	100-240 VAC 1.5A 50/60 Hz
<b>Power Consumption</b>	28W
<b>Temperature</b>	Operational: 32°F to 122°F                      0°C to 50°C Storage: -40°F to 149°F                      -40°C to 65°C
<b>Humidity</b>	Operational: 0 to 90% RH NC Storage: 0 to 95% RH NC

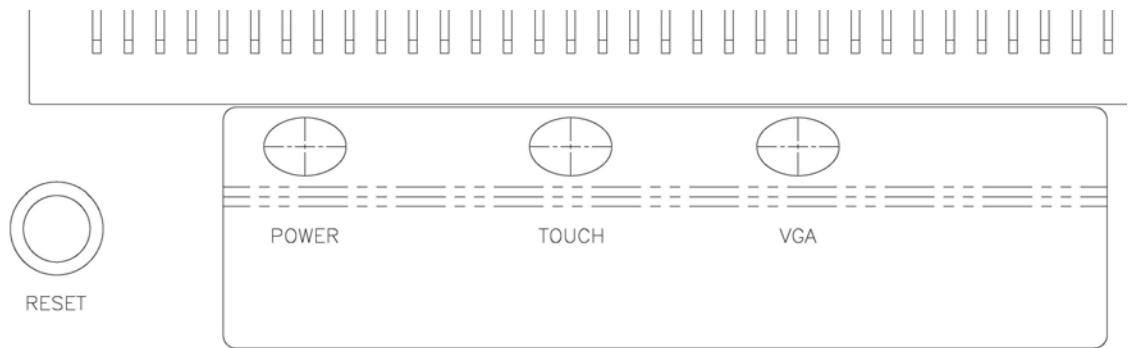
### Installation of Your Enclosed VESA Mount PC

Packaged with each carton will be:

- 1 - VT190V-VS
- 1 - AC Power Cable
- 1 - Serial Touch Screen Cable
- 1 - VGA Cable
- 1 - #8-32 Mounting Hardware
- 1 - Users Guide (Printed or on CD)



## Connections to the Enclosed LCD:



**Bottom Rear View  
- Connector Panel -**

### **Power Connection (Power In)**

The Enclosed LCD includes an AC line cord which is 10ft long. The power input receptacle is located on the bottom rear panel of the system.

### **VGA Port Connection (VGA)**

The Enclosed LCD is supplied with a 15-pin D-Shell connector. The 10ft cable is located on the rear lower panel of the system.

### **Touch Screen Connection (TOUCH)**

The Enclosed LCD is supplied with a 9-pin D-Shell serial connector configured for resistive touch screen. The 10ft cable is located on the rear lower panel of the system.

## **LCD Monitor Warm-up Time**

All LCD monitors need time to become thermally stable the first time you turn them on. Therefore, to achieve more accurate adjustments for parameters, allow the LCD monitor to warm (be on) for at least 20 minutes before making any screen adjustments.

## Maintenance

The Enclosed LCD is designed to provide optimum service and performance with minimal maintenance including the occasional external cleaning. For cleaning the Enclosed LCD enclosure follow the suggested guidelines.

**General** – NEVER use abrasive cleaners or solvent-based cleaners!! Use a clean soft cloth. The Enclosed LCD should only be opened and serviced by a qualified technician. Keep the area around the Enclosed VESA Mount PC clear and free of excessive dirt or other contaminants.

For Additional Assistance  
Contact Your VarTech Sales Representative

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