



Solutions for Demanding Applications

## 19" Sunlight Readable All-Weather Fully Enclosed LCD



A very **Rugged Sunlight Readable All-Weather, Fully-Sealed 19" high-resolution LCD Display System.** Standard color LCDs are often unable to provide sufficient luminance for viewing under bright, outdoor environments; the result is poor image quality. VarTech's high brightness monitors deliver a radically higher level of brightness, resulting in unparalleled picture sharpness. Coupled with our proprietary Optical Bonding process (VBOND), this model is a high-performance product ideally suited for use under any high ambient light condition, and will give you the intensity and brilliance your application requires.

### Durable

The VT190ESHV monitor is fully enclosed in a completely sealed, NEMA 4X (IP66), easy-open, 316 stainless steel housing. The chassis has no external vents, so nothing can get under its skin, including weather, dust, dirt, moisture, oil, chemicals or other harsh contaminants. A hard-anodized cast aluminum heat exchanger and internal heat management system keep it cool in environments where ambient temperatures approach 50°C -- without using outside air. Its rugged construction, and either pre-cabled or bulkhead connectors, allows it to be easily mounted on walls, stands, arms or other industrial equipment.

## FEATURES

- ◆ Sunlight Readable - High Bright Backlighting coupled with VBOND optical bonding
- ◆ 850 nits (cd/m2)
- ◆ VBOND optical bonding for ultra high contrast and significantly reduced reflective light
- ◆ SXGA (1280x1024) Native Resolution
- ◆ NEMA 4X (IP66) fully sealed enclosure
- ◆ Water proof and dust proof
- ◆ 316 Stainless steel construction
- ◆ Direct or KVM cabling to host
- ◆ Optional Resistive Touch

## SPECIFICATIONS

### Display Size

19 inches

### Resolution Capabilities

SXGA, native

### Pixel Format

1280 x 1024

### Brightness

850 nits (cd/m2); True Sunlight Readable

### Standard Connection

VGA, Serial, Power

### Enclosure

316 Stainless Steel Sealed Anodized Aluminum Heat Sink

### Environmental

NEMA 4X (IP66), Weather Proof Water Proof, Dust Proof

### Dimensions

18" H x 20" W x 10.5" D

### Pixel Pitch

.294mm (w) x .294mm (h)

### Viewing Angle

Left / Right: 85°/85°  
Up / Down: 85°/85°

### Active Display Area

14.818" (w) x 11.853" (h)  
376.320mm x 301.056

### Contrast Ratio

900:1

### Backlight

30,000 Hours Typical

### Colors Supported

16.8k (RGB 8-bit data)

### Video Input

Analog 0.7V p-p/ 75ohm, Digital

### Sync

TTL Separate H&V  
Combined, SOG

### Input Connectors

HD15(F), DVI-D Pin,  
RCA (NTSC/PAL) ,  
5 Pin Mini-Din (S-Video)

### Optional:

HD15(M) to 5xBNC(F) Interface Cable

### Power Source

90-264VAC Universal

### Optional:

+12VDC@4.8a

### Power Consumption

60 Watts@ 115VAC  
10 Watts Sleep Mode

### Temperature

Operating: -10 to 50° C  
Storage: -20 to 60° C

### Optional:

Operating: -20°C

### Humidity

Operating: 8 to 95% NC  
Storage: 8 to 95% NC

### Altitude

Operating: up to 10,000 ft  
Storage: up to 30,000 ft

## CONTACT

### HEADQUARTERS

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### Marks of Conformity:

FCC47 CFR part 15, subpart B  
EMC: EN 55022:2006, EN 55024:1998, CISPR  
22:2005, CISPR 24:1997

Canada: ICES-003

Australia/New Zealand: AS/NZS CISPR 22  
CE

RoHS  
WEEE



## OPTIONS

- Resistive Touch Screen
- KVM Extender (CAT5 or Fiber Optic)
- -20°C Operational Temperature