



*Improve Your Image*

## All Weather Fully Enclosed Monitors & Workstations



Completely Submersible IP68 (NEMA 6P) X-Series



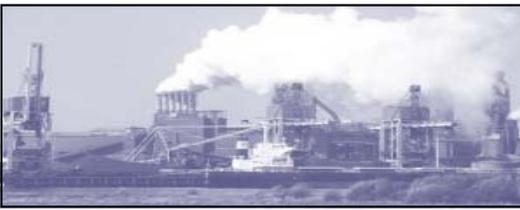
**VARTECH**  
SYSTEMS INC.

**HEADQUARTERS**  
11529 Sun Belt Ct.  
Baton Rouge, Louisiana 70809

**Phone** 800.223.8050  
**International** 001.225.298.0300  
**Fax** 225.297.2440

**E-mail** sales@vartechsystems.com  
**Website** www.vartechsystems.com

[www.vartechsystems.com](http://www.vartechsystems.com)



## 8.4" - 10.4" - 12.1" X-Series Monitors



# All-Weather Fully Submersible IP68 (NEMA 6P) High Brightness Display

Harsh duty flat panels designed for extreme conditions where the case must be completely sealed from water, oil, dirt and other contaminants. The front mounted on/off, dimming and setup control adjusts the display for ultimate operator viewing. The X-series monitors connect through sealed quick connects for power, RGB video and optional serial touch making installation and reconfiguration a "snap". The matting cables plug directly into any standard PC. The X-series monitors are available with an optional resistive touch screen to simulate mouse controls and will continue to operate even in dirty or wet conditions. The precision milled aluminum case looks great, yet will give years of service with the roughest handling. Mounting is accomplished via a shock resistant adjustable ball mount, or it can be bolted directly to a console. The X-series monitors are designed to operate over a wide temperature range and are ideally suited for industrial, marine, mobile, generator powered or fixed mount applications.

- ◆ Completely sealed case rated IP68 (NEMA 6P) watertight
- ◆ RGB Computer VGA Input
- ◆ Optional NTSC and S-Video
- ◆ 12 or 24 VDC or 120/240 VAC
- ◆ Wide Temperature Range, 0 to 60C (optional -40C to +60C)
- ◆ RAM Shock Resistant Adjustable Ball Mount
- ◆ Analog resistive touch Optional
- ◆ Thin profile anodized aluminum case
- ◆ Drilled and tapped for optional Panel Mounting
- ◆ Cables with connectors included

### Display Size

8.4", 10.4", 12.1"

### Panel Type

TFT Active

### Backlight

30,000 MTBF

### Connectors

Quick connect fully sealed connectors on rear (alt. comp video has BNC coax F no cable)

### Video Input

VGA monitor from PC, generic RGB configuration (alternate comp. video input)

### Sync

Separate H/V  
Combined, SOG

### Electrical Input

12 VDC Internal  
120/240 VAC (External Adapter)

### Electrical voltage range

+20/-15% Rating  
100-250 VAC

### Electrical Frequency

DC Input  
45-75 HZ

### Temperature

Operating: 0 to 60°C  
Storage: -55 to 75°C  
Low Operational Temperature  
Heater for down to -40C

### Humidity

Operating: 5 to 95%NC  
Storage: 5 to 95%NC

### Housing

NEMA 6P/IP68 rated outdoor weatherproof and watertight, two piece billet aluminum milled. Finish: Black anodized with a bright dip chemical film which UV stabilizes the color. This eliminates the normal finger prints that make straight anodized finishes look dirty and produces a mat finish cutting down on glare.

### Shock

Operating: 10g  
Storage: 10g

### Vibration (@ 5-500 Hz sine sweep)

Operating: 1g  
Storage: 3g

### Mounting

RAM adjustable shock resistant ball surface mount or direct mount to panel with rear tap holes



### Cables

Length - 6m (9'10") each  
Power— Calibrated 2-wire pigtail to voltage regulator, terminals on primary  
Video - 15-pin D-SUB M  
Touch (Optional) - 9-pin D-SUB F

### Touchscreen

Optional:  
Resistive



Size	Resolution	Pixels	Dimensions (W x H x D)	Luminance	Power	Weight
8.4"	SVGA	800 x 600	9.4"(w) x 6.8"(h) x 1.05" (d) 239mm(w) x 173mm(h) x 26.7mm(d)	800 nits	8 W	4lbs. / 1.8kg
10.4"	SVGA	800 x 600	11.06"(w) x 8.13"(h) x 1.05" (d) 295mm(w) x 207mm(h) x 26.7mm(d)	800 nits	10 W	4.2lbs. / 1.9kg
12.1"	SVGA	800 x 600	13.0"(w) x 9.3"(h) x 1.05" (d) 330mm(w) x 236mm(h) x 26.7mm(d)	800 nits	11 W	6.0lbs. / 2.6kg



## All-Weather Fully Submersible IP68 (NEMA 6P) High Brightness Monitor W/ Rugged Remote Computer



Harsh duty flat panel and rugged remote computers designed for extreme conditions where the LCD case must be completely sealed from water, oil, dirt and other contaminants. The front mounted on/off, dimming and setup control adjusts the display for ultimate operator viewing. The LCD monitor connects to the rugged VarTech computer through sealed quick connects for power, RGB video and optional serial touch making installation and reconfiguration a "snap". The LCD monitor is available with an optional resistive touch screen to simulate mouse controls and will continue to operate even in dirty or wet conditions. The precision milled aluminum case looks great, yet will give years of service with the roughest handling. Mounting is accomplished via a shock resistant adjustable ball mount, or it can be bolted directly to a console. The LCD monitor is designed to operate over a wide temperature range and is ideally suited for industrial, marine, mobile, generator powered or fixed mount applications.

- ◆ Completely sealed case rated IP68 (NEMA 6P) watertight
- ◆ RGB Computer VGA Input
- ◆ Optional NTSC and S-Video
- ◆ 12 or 24 VDC or 120/240 VAC
- ◆ Wide Temperature Range, 0 to 60C (optional -40C to +60C)
- ◆ RAM Shock Resistant Adjustable Ball Mount
- ◆ Analog resistive touch Optional
- ◆ Thin profile anodized aluminum case
- ◆ Drilled and tapped for optional Panel Mounting
- ◆ Cables with connectors included

### Display Size

8.4", 10.4", 12.1"

### Panel Type

TFT Active

### Backlight

30,000 MTBF

### Connectors

Quick connect fully sealed connectors on rear (alt. comp video has BNC coax F no cable)

### Video Input

VGA monitor from PC, generic RGB configuration (alternate comp. video input)

### Sync

Separate H/V  
 Combined, SOG

### Electrical Input

12 VDC Internal  
 120/240 VAC (External Adapter)

### Electrical voltage range

+20/-15% Rating  
 100-250 VAC

### Electrical Frequency

DC Input  
 45-75 HZ

### Temperature

Operating: 0 to 60°C  
 Storage: -55 to 75°C  
 Low Operational Temperature Heater for down to -40C

### Humidity

Operating: 5 to 95%NC  
 Storage: 5 to 95%NC

### Shock

Operating: 10g  
 Storage: 10g

### Vibration (@ 5-500 Hz sine sweep)

Operating: 1g  
 Storage: 3g

### Housing

NEMA 6P/IP68 rated outdoor weatherproof and watertight, two piece billet aluminum milled. Finish: Black anodized with a bright dip chemical film which UV stabilizes the color. This eliminates the normal finger prints that make straight anodized finishes look dirty and produces a mat finish cutting down on glare.

### Mounting

RAM adjustable shock resistant ball surface mount or direct mount to panel with rear tap holes

### Cables

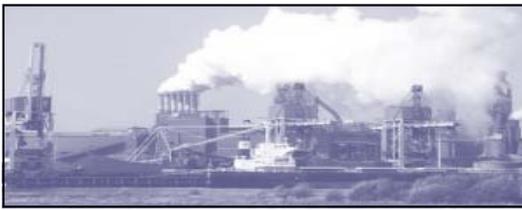
Custom LVDS cable for power, video and touch

### Touchscreen

**Optional:** Resistive

Size	Resolution	Pixels	Dimensions (W x H x D)	Luminance	Power	Weight
8.4"	SVGA	800 x 600	9.4"(w) x 6.8"(h) x 1.05" (d) 239mm(w) x 173mm(h) x 26.7mm(d)	800 nits	8 W	4lbs. / 1.8kg
10.4"	SVGA	800 x 600	11.06"(w) x 8.13"(h) x 1.05" (d) 295mm(w) x 207mm(h) x 26.7mm(d)	800 nits	10 W	4.2lbs. / 1.9kg
12.1"	SVGA	800 x 600	13.0"(w) x 9.3"(h) x 1.05" (d) 330mm(w) x 236mm(h) x 26.7mm(d)	800 nits	11 W	6.0lbs. / 2.6kg

**\*\*Computer Specifications Next Page\*\***



## 8.4" - 10.4" - 12.1" X-Series Monitors With Remote Computer Computer Specifications



### Rugged, Pentium Class MOBILE COMPUTER

Ruggedized fanless mobile computer designed to operate in low power/heat and low maintenance conditions. Engineered for high shock and vibration conditions and able to withstand a wide range of operating conditions, the panel pc is user friendly and runs Windows or LINUX operating systems. Mounting options allow for the system to be easily installed and removed from a vehicle. The system can easily handle direct digital connections to certain VarTech LCD displays. The single cable includes power for the remote monitor as well as connectivity for the optional touch screen. The system is designed to be powered directly from batteries or on-board generated 12 VDC power with load dump, over-current protection and reverse polarity protection included to cover the inconsistencies of mobile DC power sources. It can also be used with an optional external AC power adapter.

- ◆ VIA Eden 733 MHZ Fanless CPU - optional processors available (Refer to OPTIONS below)
- ◆ 256MB RAM (optional 512MB)
- ◆ 40GB HDD or SSD
- ◆ Flash up to 2G
- ◆ Optional SSD up to 2 GB
- ◆ Integrated Ethernet Adapter: 10/100BaseT
- ◆ Four serial ports, dual USB ports
- ◆ CRT/LCD Video Support with 8-32MB video RAM
- ◆ Exceptional operating temperature range
- ◆ 7-18 VDC Power Supply with Load Dump Protection
- ◆ Compact, rugged case
- ◆ Optional direct LVDS LCD Support
- ◆ Watchdog Timer, Real Time Clock
- ◆ Compatible with applications running on Win98, WinNT, Win2000, WinXP

#### Processor

VIA Eden 733 MHz (alternate optional processors available)

#### Memory

256MB RAM (optional 512MB)

#### BIOS

AWARD plug-n-play BIOS

#### Bus

32-bit, 133MHz FSB

#### Mass Storage

40GB HDD or SSD, Flash up to 2G

#### Clock

Real Time Clock - 10 year max battery life

#### Controller

Integrated Ultra DMA IDE, supports external floppy/CD-ROM. DVD

#### Video

ProSavage4 AGP4X 256-bit 2D/3D, 8 to 32MB shared memory, supports up to 1920x1440 Res

#### Audio (optional)

AC'97 Audio CODEC (100% 32-bit Soundblaster Compatible), Full Duplex DMS, L-in, L-out, MIC

#### Network Protocol

16-bit ethernet integrated on-board, 10/100 BaseT, IEEE 802.3u

#### Serial COM Ports

Configurable, COM 1-4 or disabled, RS-232 up to 115,200 Kbaud (16C550)

#### USB Ports

Dual connector, fused, master, 2-USB 1.1 devices supported

#### Watchdog Timer

CMOS programmable timer, hardware system check, system reset

#### Parallel Port (optional)

IEEE 1284, supports bi-directional data transfer, ECP/EPP

#### Power On/Off

Integral lighted rocker switch, lighted

#### Operating Systems

Win'98 Standard, WinNT 4.0, W2k, WinXp, others available

#### Connections

Power - polarized, sealed; *Serial#1-4* - 9-pin D-SUB M; *Parallel* - 25-pin D-SUB M; *Video* - 15-pin D-SUB F; *External USB* - stacked standard master; *Ethernet (optional)* - RJ-45

#### Housing

Powder coated enclosed aluminum case, NEMA 1

#### Electrical Input

12VDC or 24 VDC  
120/240 VAC (External Adapter)

#### Electrical voltage range

7-18 or 18-30 VDC  
100-250 VAC

#### Electrical Frequency

DC Input Load Dump Protected  
45-75Hz

#### Power

50 W

#### Temperature

Operating: 0 to 70°C  
Storage: -55 to 75°C

#### Humidity

Operating: 5 to 95%NC  
Storage: 5 to 95%NC

#### Shock

Operating: 10g  
Storage: 10g

#### Vibration (@ 40-300 Hz sine sweep)

Operating: 1g  
Storage: 3g

#### Dimensions

7.6"(w) x 11.7"(h) x 2.1" (d)  
193mm(w) x 297mm(h) x 53(d)

#### Weight

6.8lbs. / 3.1kg

#### MTBF

20,000 hrs. nominal

#### OPTIONS

- Celeron 600, Celeron 1 GHz and Pentium-M 1.4 GHz processors.
- Internal battery back up good for 1 hour + of operation including power for one VarTech IP86 type monitor.