



VT181R2



Solutions for Demanding Applications

# VarTech Systems Inc.

High Performance Industrial Flat Panels

## FEATURES: VT181R2 18.1" AutoSync Low Scan Rack Mount Monitor

- ◆ Bright Active Matrix TFT Display
- ◆ Optically Correct Anti-Reflective Protective Faceplate
- ◆ High Brightness and Wide Viewing Angles
- ◆ Specially designed for Low Scan Signals
- ◆ Automatic Image Size Adjustment
- ◆ TTL, Analog & Interlaced Signals accepted
- ◆ Also works with Honeywell 4500/45000

The VT181R2 has been designed primarily for Low Scan Legacy Systems as replacements for 20"/21" CRT monitors. It utilizes a modern SXGA TFT (1280 x 1024 pixels) panel and a versatile Analog-Digital interface board. All elements, including a toughened glass protection screen, have been packaged in a compact metal housing.

By special development of their own Signal Recognition and Scaling software, and access to an extensive library of older signal timings gained from 25 plus years of CRT monitor manufacturing, VarTech has created a Multiscan ("Universal:") flat panel monitor with unique 15kHz to 64kHz display capabilities. Signal timings are factory preset and added to the Program Store by customer request. At time of introduction some of the special Low Scan stored signals are listed below. Other signals, which are close to those listed, may give an acceptable display but factory consultation is preferred for each application to ensure full screen performance is achieved.

H. kHz	V Hz	Pixels	H. kHz	V Hz	Pixels	H. kHz	V Hz	Pixels	H. kHz	V Hz	Pixels
15.625	50	714 x 288	16.276	70	640 x 220	15.72	60	564 x240	21.83	60	640 x 350
15.63	60	808 x 238	17.85	50	508 x 338	15.72	60	604 x 240	24.78	60	640 x 384
15.72	60	508 x 240	20.65	50	640 x 384	16.10	50	564 x 304			
15.72	60	640 x 200	15.63	50	560 x 275	16.79	70	577 x 215			

## SPECIFICATIONS:

### Display Size

18.1 Inch TFT Active

### Panel Type

TFT Active

### Resolution Capabilities

VGA to SXGA

### Scan Frequency

Horizontal: 15-64kHz

Vertical: 50-70Hz

### Bandwidth

135MHz

### Pixel Pitch

.28054 mm

### Active Display Area

14.13" x 11.30"

358.9mm x 287.02mm

### Viewing Angle

Left / Right: 85/85 Degrees

Up / Down: 85/85 Degrees

### Contrast Ratio

350:1

### Brightness

200 Nits Typical

### Back Light

50,000Hours Half Life

### Front User Controls

Brightness, Contrast, Auto set-

up, H/V Position, Color, Clock,

Clock Phase and Priority

### Colors Displayed

16M

### Video Input

Analog RGB 0.7-1.0V p-p or

TTL>2.75V p-p

### Sync

Separate H&V (±ve) TTL or

Composite (-ve) TTL or

Sync on Green (-ve) 0.3V

### Video Input Connector:

HD15(F), 5BNC and D9

### Power Source

90-264VAC Universal

### Temperature

Operating: 0 to 45° C

Storage: -20 to 60° C

### Humidity

Operating : 10 to 95% NC

Storage: 10 to 95% NC

### Altitude

Operating : up to 10,000 ft

Storage: up to 40,000 ft

### Power Consumption

50 Watts

### Dimensions

19.0"(w) x 15.719"(h) (9U)

482.60mm x 399.26mm

### Depth

4.125" nominal

### Weight

25 lbs / 11.4 kg

### Chassis Construction

16 gauge Stainless Steel

### Bezel Finish

Painted Steel Storm Grey

**VARTECH SYSTEMS INC.**

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