Marine Approved Legacy & Multiscan Monitor

In common with normal TFT Liquid Crystal Displays, this monitor can be used with standard PC graphics cards. However, this monitor can also be used with Legacy systems that use non-standard display controllers where normal TFT Displays cannot be used.

Signal Recognition and Scaling software offer the user the ability to adjust the displayed picture in both horizontal and vertical size allowing almost any slow scan video mode to be displayed.

Designed specifically to meet the stringent demands of marine environment in particular IEC 60945 for Maritime Navigation and Radio Communications Equipment & Systems. Resolutions up to 1280 x 1024 pixels can be displayed with superb image quality.

In addition to VESA fixing at the rear, there is an optional mounting bracket for Desktop or Overhead installation.
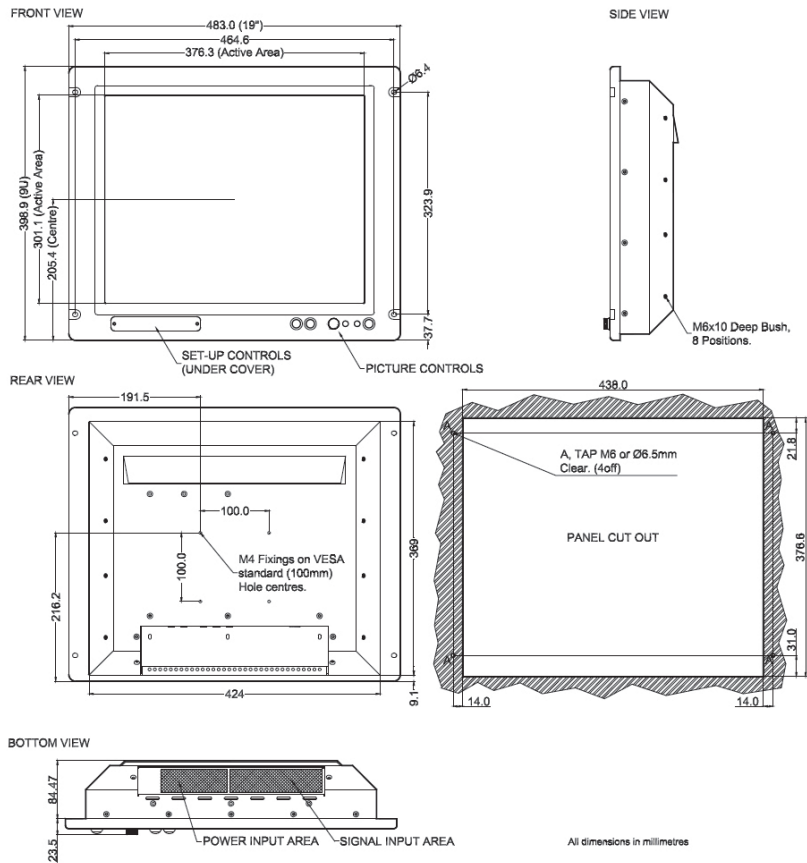
Features

- Accepts Non-Standard Video Signals

- Advanced Deep Dimming 2000:1 - KME has developed a deep dimming solution for the marine range which provides smooth consistant dimming to 2000:1 (dim to black is available on request)

- Analog & TTL Video Inputs

- Certified & Approved - The marine range is designed to comply with EN 60945 and EN 60950. In the case of the 17" and 19" monitors some are already certified and approved to these standards

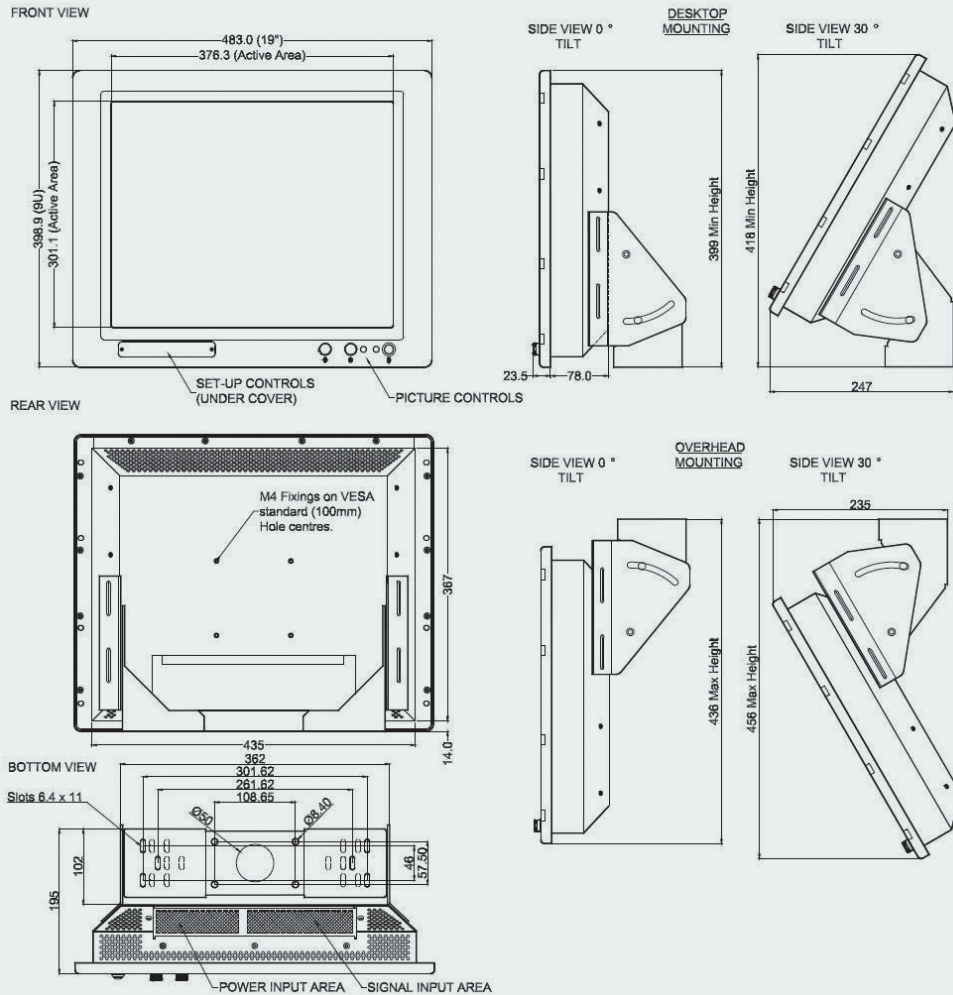- Contrast Enhancing AR Safety Glass

- Versatile Fixing for Arms/Brackets

19" LCD Marine Rackmount Monitor CRT Replacement 29LR193A55UN

Specifications: see next page

FRONT VIEW
483.0 (19")
464.6
376.3 (Active Area)
Ø6.4
398.9 (9U) (Active Area)
301.1 (Centre)
205.4
323.9
37.71
SET-UP CONTROLS (UNDER COVER)
PICTURE CONTROLS

SIDE VIEW
M6x10 Deep Bush, 8 Positions.

REAR VIEW
191.5
100.0
100.0
216.2
369
424
9.1
M4 Fixings on VESA standard (100mm) Hole centres.

438.0
21.8
A, TAP M6 or Ø6.5mm Clear. (4off)
PANEL CUT OUT
376.6
31.0
14.0
14.0

BOTTOM VIEW
84.47
23.5
POWER INPUT AREA
SIGNAL INPUT AREA
All dimensions in millimetres

MOUNTING BRACKET INSTALLATION

FRONT VIEW
483.0 (19")
376.3 (Active Area)
398.9 (9U) (Active Area)
301.1 (Active Area)
SET-UP CONTROLS (UNDER COVER)
PICTURE CONTROLS
REAR VIEW

SIDE VIEW 0 ° TILT
DESKTOP MOUNTING
399 Min Height
23.5 78.0

SIDE VIEW 30 ° TILT
418 Min Height
247

M4 Fixings on VESA standard (100mm) Hole centres.
367
435
362
301.62
261.62
108.65
Ø8.40
Ø50
102
195
46
57.50
14.0

SIDE VIEW 0 ° TILT
OVERHEAD MOUNTING
436 Max Height

SIDE VIEW 30 ° TILT
235
456 Max Height

BOTTOM VIEW
Slots 6.4 x 11
POWER INPUT AREA
SIGNAL INPUT AREA

Specifications: see next page

Specifications

TFT Charateristics	Type Max. Resolution Active Display Area Response time Contrast Ratio* Brightness* Viewing angles (at CR>10) Backlight life Nr. of colours	19" a-Si AM TFT 1280 x 1024 pixels 376.3 x 301.1 mm 15ms average, typical 500:1 typical 250 cd/m² typical 170°H, 170°V 50,000 hrs typical 16 million
Video Signal	RGB 0.7-1.0Vp-p	
Synchronisation Range	Horizontal scan Vertical scan	15-84kHz 37 to 100Hz
Display modes	640 x 480 VGA, 800 x 600 SVGA, 1024 x 768 XGA, 1280 x 1024 SXGA *(recommended)*	
Power supply / cons.	90-265V AC 50-60 Hz / 65W (Max)	
Environmental	**Operating Temp Storage Temp Operating Humidity Storage Humidity Shock Vibration	-15 to +55 °C (IEC 60945 tests) -20 to +60 °C 30% to 90% (non condensing) 10% to 90% (non condensing) 10g, 11msec ½ sine +/-1mm, 2 to 13Hz: 0.7g, 13 to 100Hz
Dimensions	Monitor	483(w) x 399(h) x 78+14(d)mm
	Weight	10 kg (approx.)
Sealing	IP23 (IP65 front)	Housing: Aluminium
User controls	Front mounted	
Approvals	ECDIS & Radar Compliance EMC & Safety Marine Communications	IEC 61174 (Designed to comply) EN 60950 (Designed to comply) IEC 60945 (Designed to comply)

Part numbers

Model	29LR193A55UN/1	
Ancillaries	Resistive touchscreen RS232 Capacitive touchscreen RS232 Resistive touchscreen USB Stand Bracket	Available upon request

Specifications are subject to change without notice. The /x version behind the partnumber indicates the version number. This version number may vary because of a different TFT panel being used.
* Brightness and contrast refer to naked LCD panel.
**Quoted EN60945 test. We do not recommend routine operation at extreme temperatures

- **Monitors**
  Desktop Monitors
  Large screen Monitors
  Custom-made Monitors
  19" Rack Mount Monitors
  Rear Mount Monitors
  Monitors for Panel Mount
  Monitors for VESA Mount
  Kiosks
  Accessories

- **Monitors – Specific applications**
  Stainless Steel Monitors
  Car Displays
  Marine Monitors
  Military Monitors
  Replacement Monitors
  Train Monitors

- **Panel PC's**
  High Performance Systems
  Custom made Panel PC's
  Low Power Systems
  Extreme environments

- **Pointing devices**
  Accessories
  Touchpads
  Trackballs
  Trackball Modules
  Joysticks
  Custom made Pointing Devices

- **Keyboards**
  Desktop Keyboards with or without pointer
  Built-in Keyboards with or without pointer
  Cables & Connectors
  Custom made Keyboards

Mulder-Hardenberg, est. 1927, is the answer to professional demands in the domain of electronic related environments. We don't just sell products. We use our multidiscipline knowledge to provide the best possible solution, designed to your specific interest.

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