Marine Approved, High Quality, Rugged Metal Construction Display

KME have developed a high resolution TFT panel which is designed to withstand the maritime environment. The displays are IP sealed to withstand shock and vibration and are designed to comply with marine approved standards. The popular rack front monitor has a rugged milled aluminum rack front, available options include a stand bracket for the monitor to be mounted either to the wall, desk or ceiling.

Designed with ECDIS and Radar in mind, the range specifically meets the stringent demands of Shock, Vibration, EMC and EMI defined in the IEC 60945 International Standard for Maritime Navigation and Radio communications Equipment & Systems.

To aid installation, flexible mounting combinations include 100mm VESA standard fixings at the rear, and a separate mounting bracket for Control Desk or Overhead positioning. The 'Marinised' TFT Monitor is manufactured in full compliance with IACS E10.

The use of high quality components, robust and lightweight casing, anti - glare safety glass, transflective enhancements and touchscreen capability makes KME's monitors ideal for demanding applications.

23" LCD Marine Rackmount Monitor 29LR233D35MP

Features

- The front is sealed to IP65 rating for water and dust resistance

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

- KME can offer a variety of touchscreen solutions for the marine range with either serial or usb interface

- 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

- Array of mounting options - Mounting options include head, chassis, desktop, handheld, panel mount and rack mounted displays

- Inputs: All monitors have VGA (multiscanning), DVI, and composite video and S - Video. Power 15 - 30V DC. AC option available

Specifications: see next page

Specifications

TFT Charateristics	Type	23.1" a-Si AM TFT
	Max. Resolution	1600 x 1200 pixels
	Active Display Area	470.4 x 352.8 mm
	Response time	15ms
	Contrast Ratio*	800:1 typical
	Brightness*	280 cd/m² typical
	Viewing angles (at CR>10)	178°H, 178°V
	Backlight life	50,000 hrs typical
	Nr. of colours	16.7 million
Video Signal	RGB 0.7-1.0Vp-p	
Composite Video Inputs	PAL/NTSC & SECAM with 'Picture In Picture' (PIP) facility	
Signal Sync	Separate H & V (=/ve) TTL	or Composite (-ve) TTL or Sync - on - Green (-ve) 0.3V
Synchronisation Range	Horizontal scan	31-75kHz
	Vertical scan	60 to 75Hz
Display modes	VESA support	640 x 480 VGA, 800 x 600 SVGA 1024 x 768 XGA, 1280 x 1024 SXGA 1600 x 1200 UXGA (recommended)
Power supply / cons.	15 - 30V DC / 85W (Max)	
Environmental	**Operating Temp	-15 to +55 °C (IEC 60945 tests)
	Storage Temp	-20 to +60 °C
	Operating Humidity	30% to 90% (non condensing)
	Storage Humidity	10% to 90% (non condensing)
	Shock	10g, 11msec ½ sine
	Vibration	+/-1mm, 2 to 13Hz: 0.7g, 13 to 100Hz
Dimensions	Monitor	584(w) x 534(h) x 98(d) mm
	Weight	16 kg approx.
Input Connectors	VGA 15 - WAY D, DVI, PAL / BNC, S-VIDEO	
Sealing	Front Panel IP65	Housing: Aluminium
User controls	Front mounted	
Approvals	ECDIS & Radar Compliance	IEC 61174 (Designed to comply)
	EMC & Safety	EN 60950 (Designed to comply)
	Marine Communications	IEC 60945 (Designed to comply)

Part numbers

Model	29LR233A35MP/5	
Ancillaries	Resistive touchscreen RS232	29LR233AR35MP/5
	Capacitive touchscreen RS232	29LR233AC35MP/5
	with resistive touchscreen USB	29LR233ARU35MP/5
	Stand bracket	29ST0014LR-3

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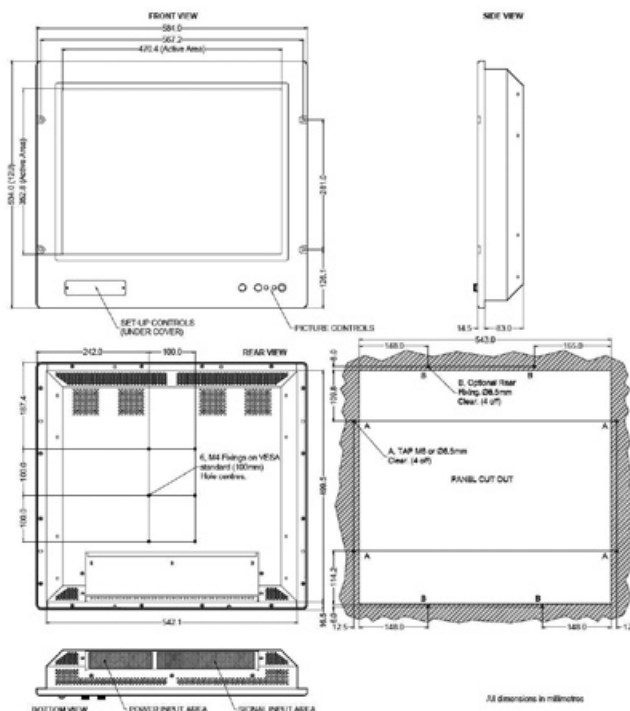
Monitors
Desktop Monitors
Large screen Monitors
Custom-made Monitors
19" Rack Mount Monitors
Rear Mount Monitors
Monitors for Panel Mount
Monitors for VESA Mount
Kiosks
Accessories

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

mh mulder-hardenberg group

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.