### 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 aluminium rack front and is manufactured in full compliance with IACS E10.

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 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.

#### Features

- The front is sealed to IP65 rating for water and dust resistance.
- Advanced Deep Dimming 2000:1 KME have developed a deep dimming solution for the marine range which provides smooth consistent dimming to 2000:1 (dim to black is available on request)
- Optional Touchscreen Integration KME can offer a variety of touchscreen solutions for the marine range with either serial or usb interface
- 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
- Inputs: All monitors have VGA (multiscanning), DVI and PAL. Power 15-30V DC. AC option available

## *15" LCD Marine Rackmount Monitor 29LR153D35MP*



Specifications: see next page

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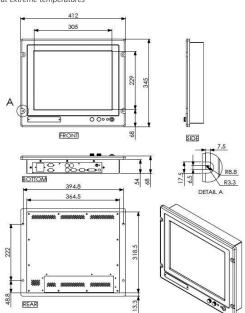
# **MAN/MACHINE INTERFACES & MONITORS**

Specifications		
TFT Charateristics	Type Max. Resolution Active Display Area Response time Contrast Ratio* Brightness* Viewing angles (at CR>10) Backlight life Nr. of colours	15" a-Si AM TFT 1024 x 768 pixels 304.1 x 228.1mm 13ms 450:1 typical 250 cd/m <sup>2</sup> typical 130°H, 110°V 50,000 hrs typical 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 Vertical scan	31-75kHz 60 to 75Hz
Display modes	VESA support	640 x 480 VGA 800 x 600 SVGA 1024 x 768 XGA (recommended)
Power supply / consumption	15-30VDC / 50W (Max)	
Environmental	**Operating Temp Storage Temp Operating Humidity Storage Humidity	-0 to +50 °C -20 to +65 °C 50% to 90% (non condensing) 28% to 90% (non condensing)
Dimensions	Monitor	430(w) x 363(h) x 89(d) mm
	Weight	9 kg
Input Connectors	VGA 15 - WAY D, DVI, PAL / BNC, S-VIDEO	
Sealing	IP65 on 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	29LR153D35MP/5	
Ancillaries	Resistive touchscreen RS232 Capacitive touchscreen RS232 with resistive touchscreen USB Stand bracket	29LR153DR35MP/5 29LR153DC35MP/5 29LR153DRU35MP/5 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.

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\* Brightness and contrast refer to naked LCD panel. \*\*Quoted EN60945 test. We do not recommend routine operation at extreme temperatures



## the expert approach

#### 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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