

Marine Approved, High Quality, Rugged Metal Construction Display

Developed primarily for applications where operator view ability is at a premium. Compact design and a versatile mounting system optimises both operator viewing angles and 'Lines Of Sight'. Resolutions up to 1600 x 1200 pixels and PIP can be displayed with superb image quality. The 'Marinised' TFT Monitor is manufactured in full compliance with IACS E10.

Designed to specifically meet the stringent demands of Shock, Vibration, EMC, EMI defined in the IEC 60945 International Standard for Maritime Navigation and Radio communications Equipment & Systems. The monitor offers continuity by design for all Navigation and Ship Automation applications.

Features

- Versatile Display Head (VESA)
- IP65 sealed housing with protective sunscreen - 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
- 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.
- Inputs: All monitors have VGA (multi scanning), DVI and PAL. Power 90-265V AC

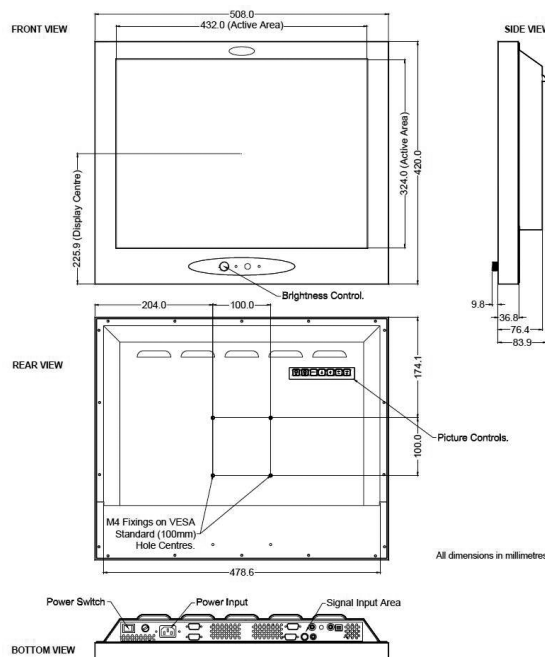
*21.3" LCD Marine Head Monitor
29LM213003*



Specifications: see next page

Specifications		
TFT Characteristics	Type Max. Resolution Active Display Area Response time Contrast Ratio* Brightness* Viewing angles (at CR>10) Backlight life Nr. of colours	21.3" a-Si AM TFT 1600 x 1200 pixels 432 x 324mm 25ms 500:1 typical 250 cd/m ² typical 170°H, 170°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, 1280 x 1024 SXGA, 1600 x 1200 UXGA (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	508(W) x 420(H) x 83.9(D) mm
	Weight	10.6 kg (approx.)
Input Connectors	Audio RGB Signal Video Signal RS232 Remote Control Power	2 x Phono 15-pin HD Female D-Type RCA + S-video socket 9-pin Male D-Type 3-Pin IEC Male
Output Connectors	Video Buffer (Multi-Drop) RS232 Remote Control	15-pin HD Female D-9-pin Male D-Type
Sealing	Front Panel IP65	Housing: Aluminium (Black Finish)
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	29LM213003/x	

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.

Contact details:

The Netherlands
Mulder-Hardenberg B.V.
Westerhoutpark 1a
2012 JL Haarlem
Tel.: +31 23 531 91 84
infonl@m-h.biz

Belgium, France, Luxemburg
Mulder-Hardenberg N.V.
Hoge Weg 129
B-2940 Stabroek
Belgium
Tel.: +32 3 660 13 20
infobe@m-h.biz

Germany
Mulder-Hardenberg GmbH
Nordring 13
D-65719 Hofheim/Ts
Tel.: +49 6192 - 97 91 85
infode@m-h.biz