

# 19" LCD MARINE HEAD MONITOR

29LM190003/1

DATASHEET

## HIGH QUALITY, RUGGED METAL CONSTRUCTION

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 1280 x 1024 pixels and PIP can be displayed with superb image quality. The 'Marinised' TFT Monitor is manufactured in full compliance with IACS E10.

Designed to meet the stringent demands of Shock, Vibration, EMC, EMI defined in the IEC60945 International Standard for Maritime Navigation and Radio communications Equipment & Systems. The monitor offers continuity by design for all Navigation and Ship Automation applications.

### SOLUTIONS FOR MARINE APPROVED MONITORS

- > **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.



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Electrical Description		Mechanical Description	
<b>TFT Characteristics:</b>		<b>Dimensions:</b>	
Type:	19" a-Si AM TFT	Monitor:	453(W) x 397(H) x 83.9(D) mm
		Weight:	10kg
		<b>Input Connectors:</b>	
		Audio:	2 x Phono
		RGB Signal:	15-pin HD Female D-Type
		Video Signal:	RCA + S-video socket
		RS232 Remote Control:	9-pin Male D-Type
		Power:	3-Pin IEC Male
<b>Max Resolution:</b>	1280 x 1024 pixels	<b>Output Connectors:</b>	
		Video Buffer (Multi-Drop): RS232 Remote Control:	15-pin HD Female D-9-pin Male D-Type
Active Display Area:	376.3 x 301.1mm	<b>User Controls:</b>	
		Front Mounted	
Response Time:	13ms	<b>Housing:</b>	
		Aluminium	
*Contrast Ratio:	500:1 typical	<b>Sealing:</b>	
		IP65 on front	
*Brightness:	250cd/m <sup>2</sup> typical	<b>Approvals</b>	
Viewing Angles (at CR>10):	170° / 170°	<b>ECDIS &amp; Radar Compliance:</b>	
		IEC 61174:	Designed to comply
Backlight Life:	50,000 typical	<b>EMC &amp; Safety:</b>	
No. Colours:	16.7 million	EN 60950	Designed to comply
<b>Video Signal:</b>	RGB 0.7-1.0Vp-p	<b>Marine Communications:</b>	
<b>Composite Video Inputs:</b>	PAL/NTSC & SECAM with 'Picture In Picture' (PIP) facility	IEC 60945:	Designed to comply
<b>Signal Sync:</b>	Separate H & V (=ve) TTL or Composite (-ve) TTL or Sync - on - Green (-ve) 0.3V		
<b>Synchronisation Range:</b>	Horizontal scan: 31-91 kHz Vertical Scan: 60-85 Hz		
<b>Display modes:</b>	640 x 480 VGA 800 x 600 SVGA 1024 x 768 XGA 1280 x 1024 SXGA(recommended)		
<b>Power Supply:</b>	90-265V AC 50/60Hz	<b>Part Numbers:</b>	
<b>Power Consumption:</b>	65 W (Max)		
<b>Environmental:</b>	**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	Monitor (Black finish):	29LM190003/1
**Quoted EN60945 test. We do not recommend routine operation at extreme temperatures * Brightness and Contrast refer to naked LCD panel			

Due to a policy of continuous product development KME reserves the right to change specifications and descriptions without prior notification. All trademarks acknowledged.

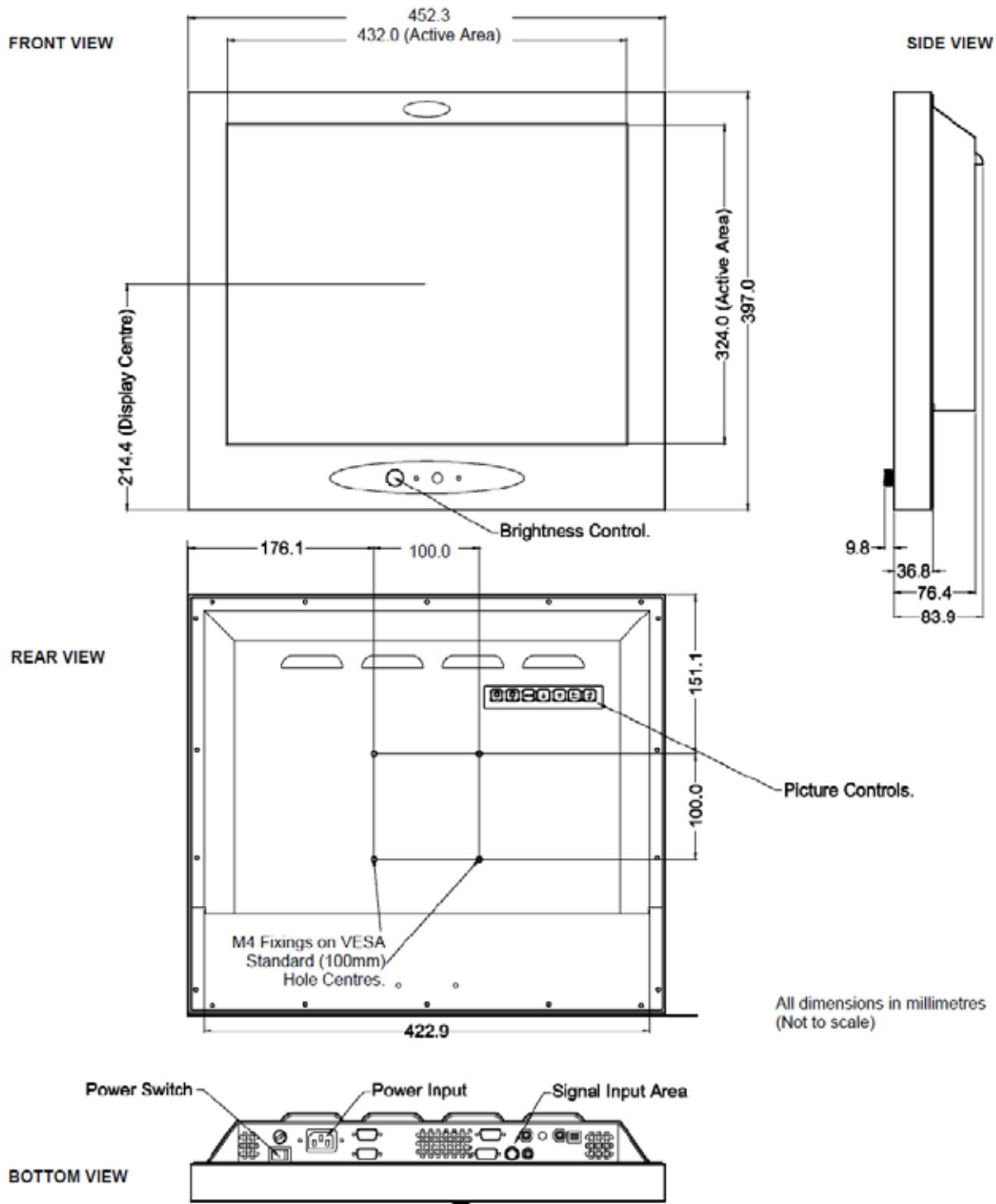
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