

# 19" LCD MARINE RACKMOUNT MONITOR

## 29LRD193A35MP/6

# DATASHEET

## HIGH QUALITY, RUGGED METAL CONSTRUCTION

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 LRD range is a lower cost solution for the standard rackmount monitor, which uses multiple sheets of metal bonded together.

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, transfective enhancements and touch-screen capability makes KME's monitors ideal for demanding applications.

### SOLUTIONS FOR MARINE APPROVED MONITORS

- > **IP65 sealed**  
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 constant 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.
- > **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 PAL.  
Power 90 - 265AC. DC options available



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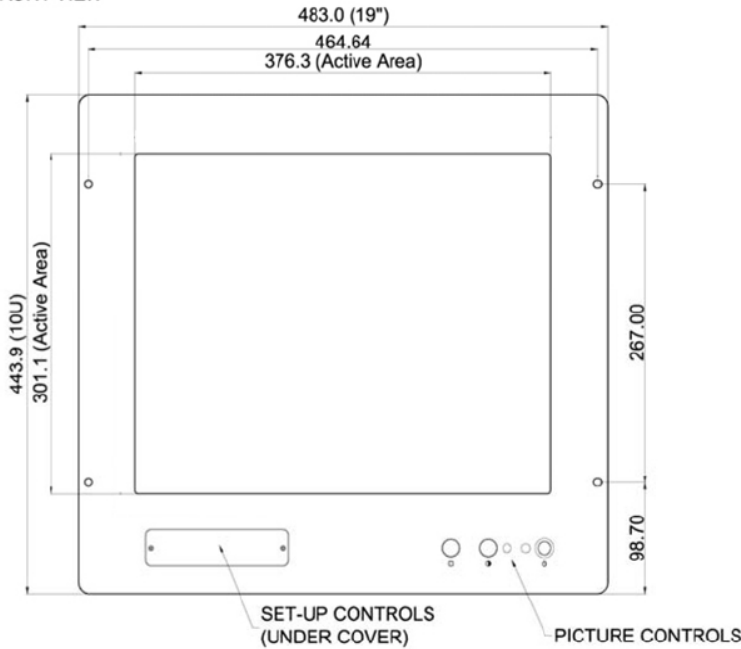
Electrical Description		Mechanical Description	
<b>TFT Characteristics:</b>		<b>Dimensions:</b>	Monitor: 453(w) x 397(h) x 83.9(d)mm Weight: 11kg approx
Type:	19" a-Si AM TFT	<b>Input Connectors:</b>	VGA 15-WAY D DVI PAL/BNC S-VIDEO
Max Resolution:	1280 x 1024 pixels		
Active Display Area:	376.3 x 301.1 mm	<b>User Controls:</b>	Front Mounted
Response Time:	13ms	<b>Housing:</b>	Aluminium
*Contrast Ratio:	1000:1 typical	<b>Sealing:</b>	IP65 on front
*Brightness:	250cd/m <sup>2</sup> typical	<b>Approvals</b>	
Viewing Angles (at CR>10):	178° / 178°	<b>ECDIS &amp; Radar Compliance:</b>	
Backlight Life:	50,000 typical	IEC 61174:	Designed to comply
No. Colours:	16.7 million	<b>EMC &amp; Safety:</b>	
<b>Video Signal:</b>	RGB 0.7-1.0Vp-p	EN 60950	Designed to comply
<b>Composite Video Inputs:</b>	PAL/NTSC & SECAM with 'Picture In Picture' (PIP) facility	<b>Marine Communications:</b>	
<b>Signal Sync:</b>	Separate H & V (=ve) TTL or Composite (-ve) TTL or Sync - on - Green (-ve) 0.3V	IEC 60945:	Designed to comply
<b>Synchronisation Range:</b>			
Horizontal scan:	31-75 kHz		
Vertical Scan:	60-75 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>	65W (Max)		
<b>Environmental:</b> **Operating Temp:	0 to +55 °C (IEC 60945 tests)	Monitor:	29LRD193A35MP/6
Storage Temp:	-20 to +60 °C	<b>Ancillaries:</b>	
Operating Humidity:	30% to 90% (non condensing)	Resistive Touchscreen RS232:	29LRD193AR35MP/6
Storage Humidity:	10% to 90% (non condensing)	Capacitive touchscreen RS232:	29LRD193AC35MP/6
Shock:	10g, 11msec ½ sine	With resistive touchscreen USB:	29LRD193ARU35MP/6
Vibration:	+/-1mm, 2 to 13Hz: 0.7g, 13 to 100Hz	Stand bracket:	29ST0014LR-3
Due to a policy of continuous product development KME reserves the right to change specifications and descriptions without prior notification. All trademarks acknowledged.			
**Quoted EN60945 test. We do not recommend routine operation at extreme temperatures * Brightness and Contrast refer to naked LCD panel			

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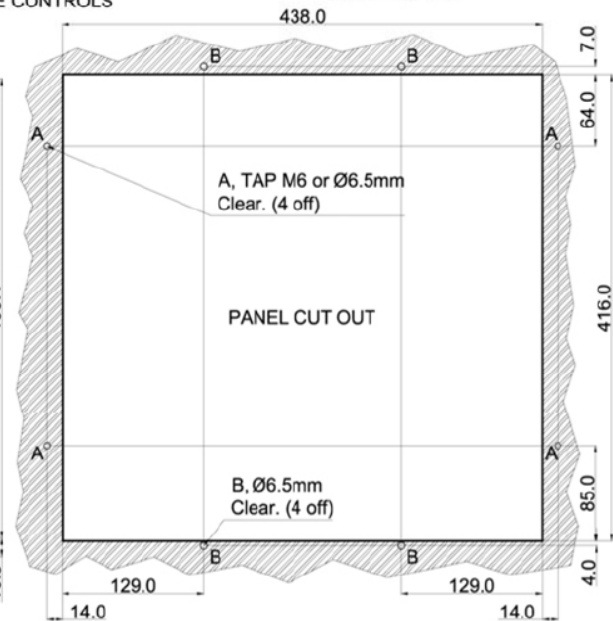
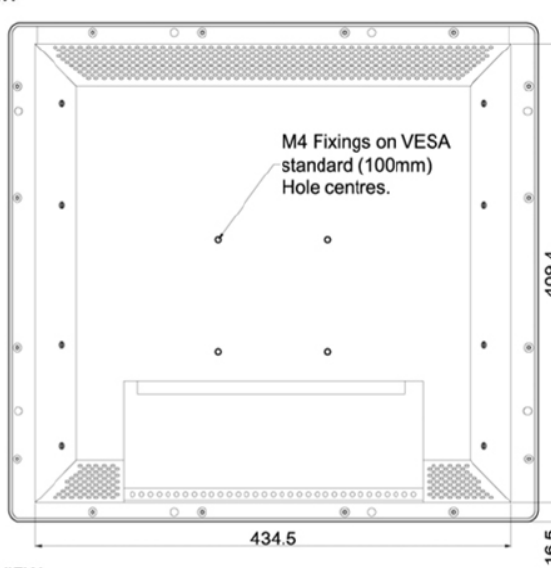
FRONT VIEW



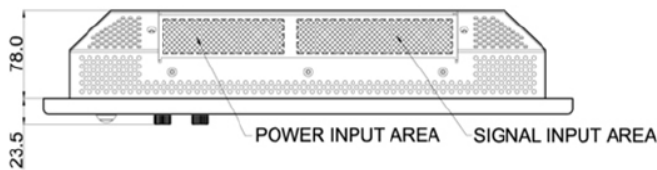
SIDE VIEW



REAR VIEW



BOTTOM VIEW



All dimensions in millimetres  
(Not to scale)