

21" LCD MARINE RACKMOUNT MONITOR

29LR213D35MP/5

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 popular rack front monitor has a rugged milled aluminium 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, 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 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.
- > **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 15 - 30V DC. AC option available



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Electrical Description		Mechanical Description	
TFT Characteristics:		Dimensions:	
Type:	21.3" a-Si AM TFT	Monitor:	534(w) x 481(h) x 82(d)mm
		Weight:	13kg
Max Resolution:	1600 x 1200 pixels	Input Connectors:	
Active Display Area:	432 x 324 mm	VGA 15 - WAY D DVI PAL / BNC S-VIDEO	
Response Time:	16ms	User Controls:	
*Contrast Ratio:	550:1 typical	Front Mounted	
*Brightness:	300cd/m ² typical	Housing:	
Viewing Angles (at CR>10):	170° / 170°	Aluminium	
Backlight Life:	50,000 typical	Sealing:	
No. Colours:	16.7 million	IP65 on front	
Video Signal:	RGB 0.7-1.0Vp-p	Approvals	
Composite Video Inputs:	PAL/NTSC & SECAM with 'Picture In Picture' (PIP) facility	ECDIS & Radar Compliance:	
Signal Sync:	Separate H & V (=ve) TTL or Composite (-ve) TTL or Sync - on - Green (-ve) 0.3V	IEC 61174:	Designed to comply
Synchronisation Range:	Horizontal scan: 31-75 kHz Vertical Scan: 60-75 Hz	EN 60950	Designed to comply
Display modes:	640 x 480 VGA 800 x 600 SVGA 1024 x 768 XGA 1280 x 1024 SXGA 1600 x 1200 UXGA (recommended)	EMC & Safety:	
Power Supply:	15 - 30V DC	IEC 60945: Designed to comply	
Power Consumption:	65W (Max)	Marine Communications:	
Environmental: **Operating Temp:	-15 to +55 °C (IEC 60945 tests)	IEC 60945: Designed to comply	
Storage Temp:	-20 to +60 °C	Part Numbers:	
Operating Humidity:	30% to 90% (non condensing)	Monitor: 29LR213D35MP/5	
Storage Humidity:	10% to 90% (non condensing)	Ancillaries	
Shock:	10g, 11msec ½ sine	Resistive touchscreen RS232:	29LR213DR35MP/5
Vibration:	+/-1mm, 2 to 13Hz: 0.7g, 13 to 100Hz	Capacitive touchscreen RS232:	29LR213DC35MP/5
		Resistive touchscreen USB:	29LR213DRU35MP/5
		Stand Bracket:	29ST0014LR-3
**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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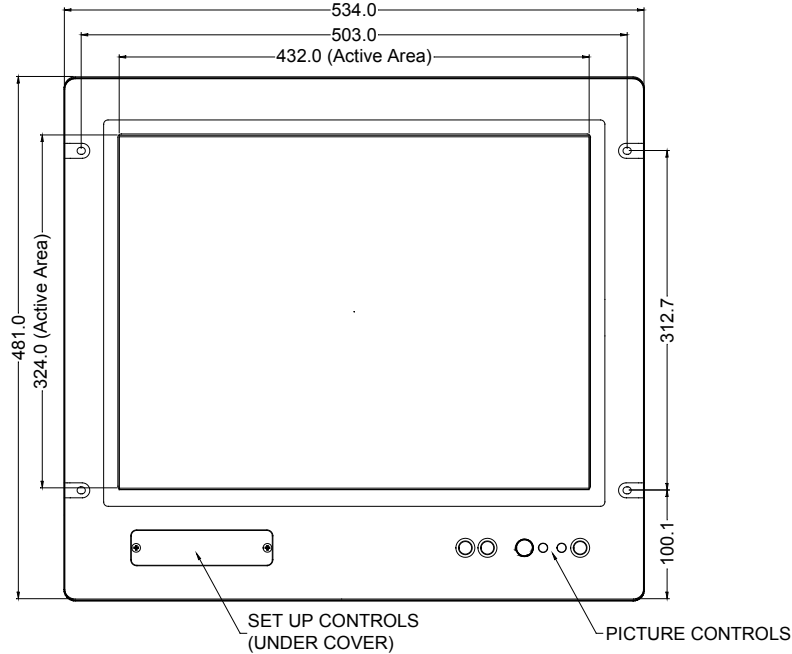


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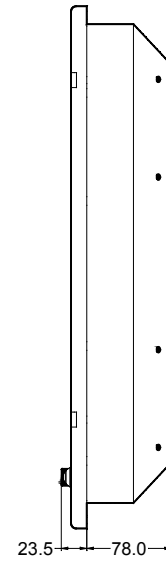
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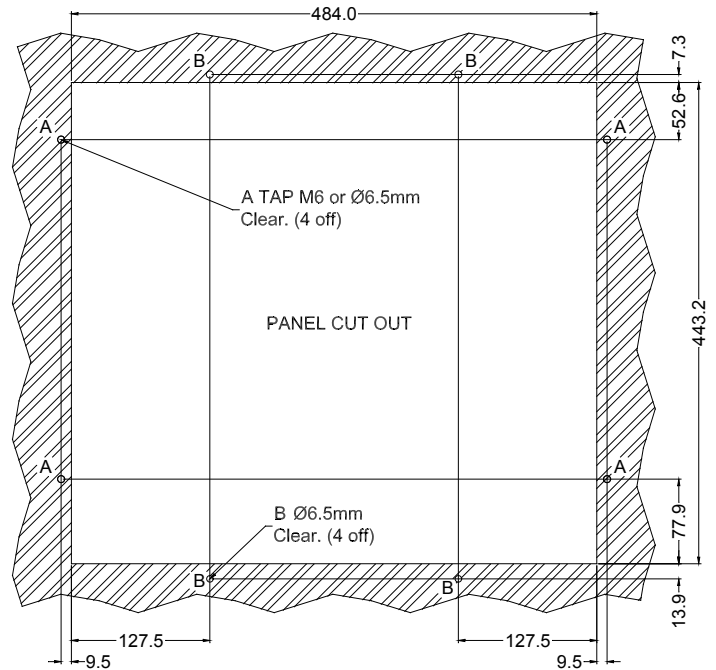
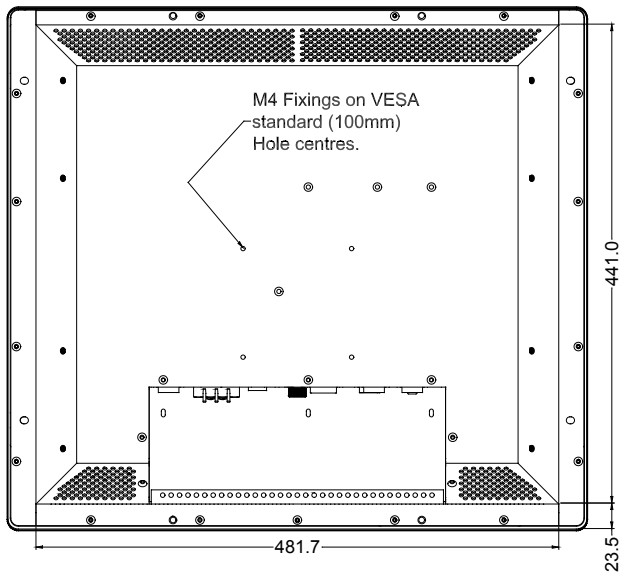
FRONT VIEW



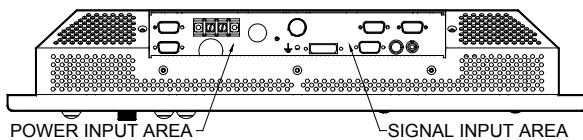
SIDE VIEW



REAR VIEW



BOTTOM VIEW



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