

19.0" LCD Marine Monitor



Features

- ◆ Advanced Deep Dimming 2000:1
- ◆ Certified to IEC 60945
- ◆ Versatile Display Head (VESA)
- ◆ Contrast Enhancing AR Safety Glass
- ◆ Type Approvals
- ◆ ECDIS & Radar Compliance
- ◆ Video Buffer & Remote Control
- ◆ Audio Speakers (Internal)

Introduction

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.

Application

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.

KENT MODULAR ELECTRONICS LTD

611 Maidstone Road, Rochester, Kent ME1 3QL UK. Tel: +44 (0)1634 830123 Fax: +44 (0)1634 830619

URL: www.kme.co.uk E-Mail: sales@kme.co.uk

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



Technical Specifications

Electrical Description

TFT Characteristics:

Type: 19.0" a-Si AM TFT
Dot Number: 1280 x 1024 pixels
Dot Pitch: 0.294mm
Response Time: 15ms average, typical
Contrast Ratio: 500:1 min.
Light Intensity: 250cd/m² typical
Viewing Angles (at CR>10): 85° - Left, Right, Up, Down
Backlight Life: 50,000 hours typical

Display Colours Analog Input:

Colour Depth: 16.7million (Depending on Graphics Card)

Video Signal:

Analog: RGB 0.7-1.0Vp-p
Impedance: 75 Ohms

Sync Signal:

Sync. Type/Level: Separate H&V (+/-ve) TTL or Composite TTL

Synchronisation Range:

Horizontal Scan: 31 to 91kHz
Vertical Scan: 60 to 85Hz

Resolutions:

Multiscan Support: 640 x 480 VGA
800 x 600 SVGA
1024 x 768 XGA
1280 x 1024 SXGA*

* Recommended for Optimised Resolution

Composite Video Inputs:

Horizontal Scan: PAL, NTSC & SECAM with 'Picture In Picture' (PIP) facility

Active Display Area:

376.3 x 301.1mm

Power Supply:

90-265V AC 50/60Hz: Internal

Audible Alarm:

x2 Internal Speakers: Fitted with mu-metal screens

Power Consumption:

Operating: 65 W (Max.)

Environmental:

**Operating Temp: -15 to +55°C (EN60945 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

**Quoted EN60945 test. We DO NOT recommend routine operation @ extreme temperatures.

Mechanical Description

Construction:

Housing: Aluminium
Finish: Specify either; Grey, Black or Cream
Safety Glass: Toughened, Optically Coated and Contrast Enhancing - Transmission 90%min.
Sealing: IP23 (Minimum)

Mounting:

VESA Format (100mm Pitch): x4 fixing holes

Dimensions:

Monitor: 453(W) x 397(H) x 83.9(D) mm
Weight (approx): 10 kg.

Input Connectors:

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

Output Connectors:

Video Buffer (Multi-Drop): 15-pin HD Male D-Type
RS232 Remote Control: 9-pin Male D-Type

User Controls:

Front Panel: Brightness (Ratio 2000:1), Light Sensor, Power LED Indicator
Rear Panel: Manual/Auto (Light Sensor) SW, Brightness (Sub), Volume, Volume SW, Mains Power, OSD 'Enable' SW.
OSD Buttons on Rear Panel: OSD Picture Features:-
Size, Position & Colour

Approvals

ECDIS & Radar Compliance:

IEC 61174: Via BSH, Germany - Pending

EMC & Safety:

EN 50081-1: Emissions
EN 50082-2: Immunity
EN 60950: Safety

Marine Communications:

IEC 60945: 4th Edition - Pending

Type Approvals:

ABS: American Bureau of Shipping - Pending
DNV: Det Norske Veritas - Pending
LRS: Lloyds Register of Shipping - Pending
We will apply to other classification societies where demand justifies e.g.: -
ClassNK: Nippon Kaiji Kyokai
GL: Germanischer Lloyd

Ordering Codes

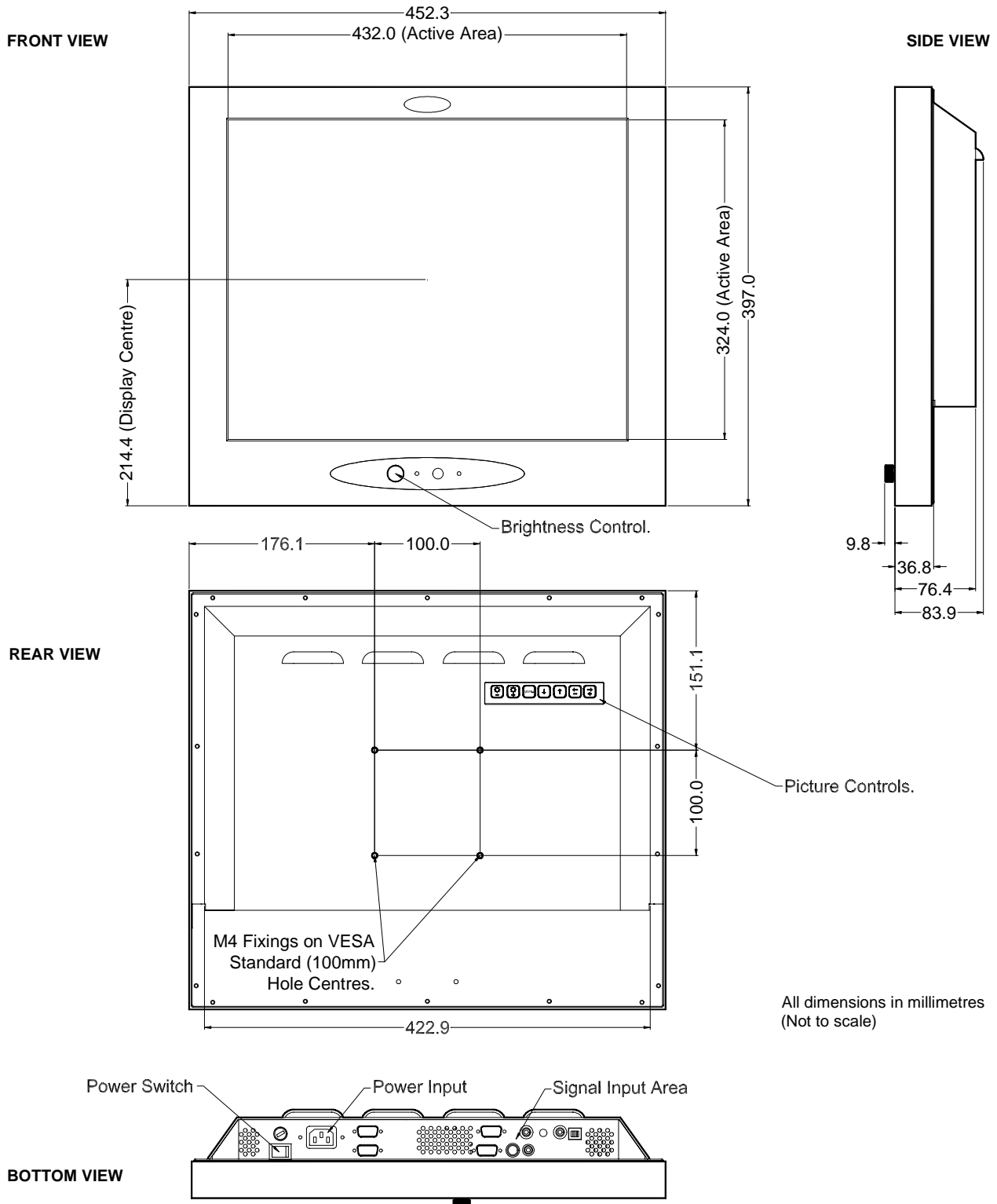
Standard Configuration:

Monitor (Grey Finish): 29LM190002

Ancillaries/Options:

Monitor (Black Finish): 29LM190003
Monitor (Cream Finish): 29LM190004
Panel Mounting Assembly Kit: TBA

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