

## 19.0" LCD Chassis Marine Monitor

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### Features...

- ◆ **Advanced Deep Dimming 2000:1**
- ◆ **Automatic Brightness Control**
- ◆ **Compact Versatile Housing**
- ◆ **Contrast Enhancing AR Safety Glass**
- ◆ **SXGA + PAL/NTSC/SECAM**
- ◆ **Rear Housing Sealed to IP23**
- ◆ **Front & Remote Brightness Control**
- ◆ **Video Output (Multi-Drop)**

### Introduction

KME has developed this 19.0" Chassis model to address the growing demand from OEM's and System Integrators for a high quality monitor which can be installed within their own custom front panels.

For ease of installation there are 8 mounting holes positioned around the edge of the 6mm thick milled Aluminium chassis. Both safety glass and controls are sealed to the front chassis to protect against ingress.

### Application

Designed to meet the stringent demands of Shock, Vibration, EMC, EMI defined in the IEC 60945 International Standard for Maritime Navigation and Radio communications Equipment & Systems.

Automatic brightness control feature aids operability in varying ambient light conditions.

...the ideal OEM solution.

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### KENT MODULAR ELECTRONICS LTD

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## Technical

### Electrical Description

#### TFT Characteristics:

Type: 19.0" a-Si AM TFT  
Dot Number: 1280 x 1024 pixels  
Dot Pitch: 0.294mm  
Response Time: 13ms average, typical  
Contrast Ratio: 500:1 min.  
Light Intensity: 250cd/m<sup>2</sup> 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 (-ve) TTL or Sync-on-Green (-ve) 0.3V

#### Synchronisation Range:

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

#### Resolutions:

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

\* Recommended for Optimised Resolution

#### Composite Video Inputs:

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

#### Power Consumption:

Operating: 65 W (Max.)

#### Environmental:

\*\*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

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

### Mechanical Description

#### Construction:

Housing: Aluminium  
Safety Glass: Toughened, Optically Coated and Contrast Enhancing - Transmission 90% min.  
Sealing: Front Chassis IP65 / Rear IP23

#### Mounting:

Chassis Fixings: x8 M5.5 fixing holes

#### Dimensions:

Monitor: 450 (W) x 395.5 (H) x 93.5 (D) 84.5mm (Depth - from Rear Face of Chassis)  
Weight (approx): 10kg.

#### Input Connectors:

Power: 3-Pin IEC Male  
RGB Signal: 15-pin HD Female D-Type  
S-Video: S-video socket  
Composite Video: Phono (RCA 3mm) socket  
RS232: 9-pin Male D-Type  
Remote Control: 9-pin Female D-Type

#### Output Connectors:

Video Buffer (Multi-Drop): 15-pin HD Female D-Type

#### User Controls:

Front Chassis: Rotary Brightness Control (Ratio 2000:1), Auto Brightness Indicator, Ambient Light Sensor & Power Indicator

Rear: Picture Controls (OSD), Auto Dimming SW & Backlight Adjust Knob

### Approvals - 'Designed to Comply'

#### ECDIS & Radar Compliance:

IEC 61174: ECDIS  
IEC 60936: Radar

#### EMC & Safety:

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

#### Marine Communications:

IEC 60945: 4th Edition

### Ordering Codes

#### Standard Configuration:

Monitor: 29LS1903018

#### Option:

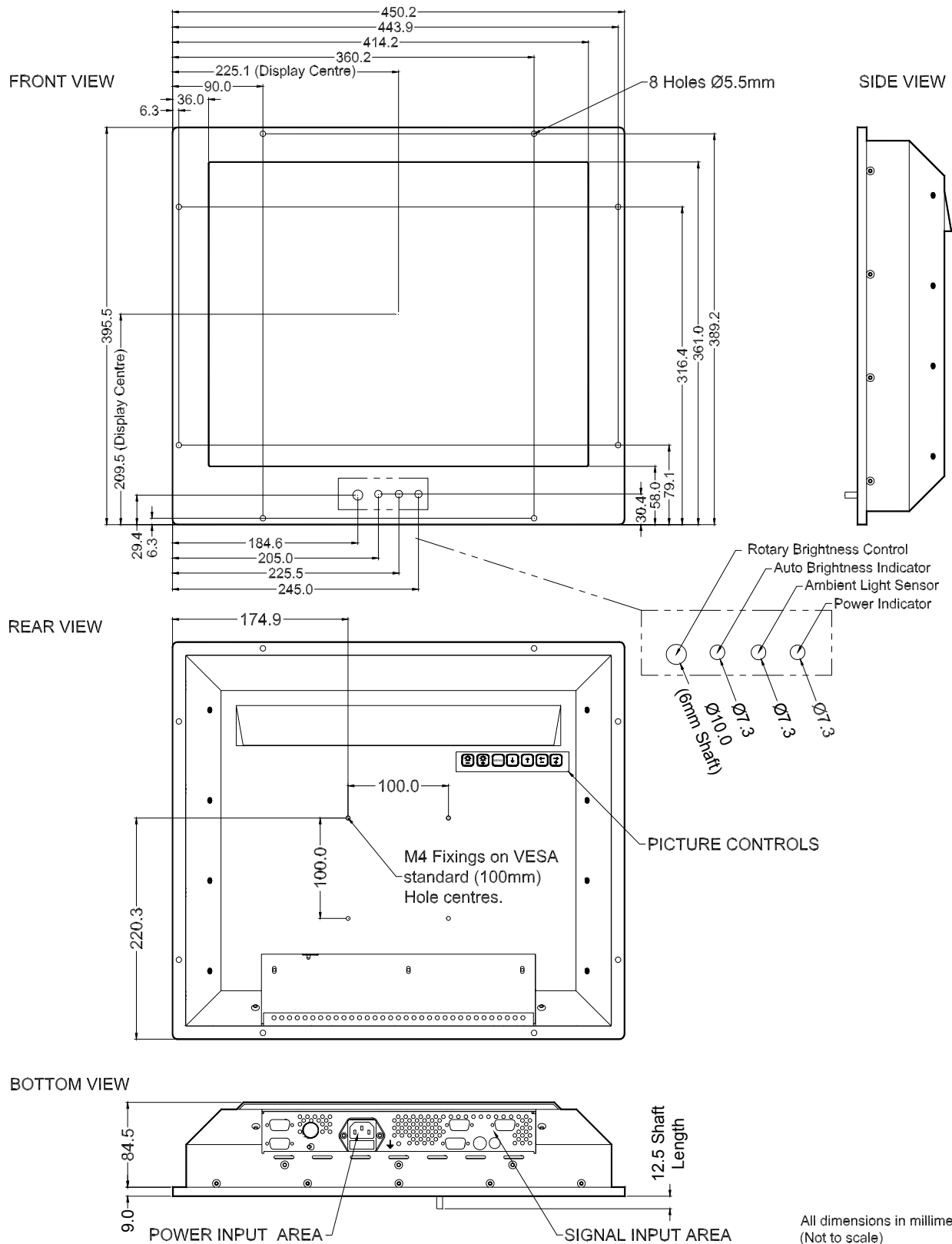
Touch Screen: On Request

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