

## Marine TFT Monitor - MON2300MII



MON2300MII is a rugged 23.1" (LCD) TFT monitor, specially designed for the demanding operating conditions at sea.

MON2300MII is tested for full compliance to IACS E10, IEC 60945, IEC 61174 (ECDIS) and IEC 60936-1/2/3 (RADAR) standards, and holds multiple international certificates.

MON2300MII features a display with high brightness and contrast levels, that, together with wide viewing angles, ensure a clear, sharp and eye-friendly image.

MON2300MII uses the ISIC dial and membrane-key technology to give a low profile, for beautiful integration in any place.

- 23.1" LCD display - TFT technology.
- Excellent brightness and contrast levels.
- Direct dimming control (0-100%) from dial.
- Full control via OSD menu or serial link.
- Scalable picture in picture (swappable).
- Anti-glare and impact resistant glass.
- IP65 and chemical resistant front.
- Optional ECDIS/ARPA colour calibration.
- Optional loudspeaker.

## Product Specifications

### Product **MON2300M Mk.II**

#### Display

Type: LCD (TFT) active matrix  
 Size: 23.1 inch diagonal  
 Viewing angles (typical): 80°/80°/80°/80° (L/R/T/B)  
 Luminance: 250 Cd/sqm (typical)  
 Contrast ratio: 500:1 (typical)  
 Colours: 16,194,277 (24 bit)  
 Resolution: 1600 x 1200 max. (physical), Auto scaling

#### Ports

Video input: RGB/DVI-A: Analogue 0.7 Vpp positive at 75Ω,  
 Separate sync or sync on green  
 Horizontal sync: 15-100 kHz (automatic)  
 Vertical sync: 30-100 Hz up to 1280x1024  
 30-60 Hz up to 1600x1200  
 (DVI-A placed in connector with DVI-I)  
 DVI-D/I: Single channel, 25-162 MHz pixel clock  
 (DVI-I placed in connector with DVI-A)  
 S-video: Y input 1 Vpp, C input 0.286 Vpp, 75Ω  
 2x Composite: 1 Vpp, 75Ω

Control input/output: RS232 D-sub 9 pin, 9600 baud  
 RS485 2x D-sub 9 pin for daisy chain, 9600 baud

#### Power

Supply: 90 - 265 VAC rms. 60/50 Hz ±5 Hz  
 Consumption: 60 W typical

#### Design

Front: Solid aluminium, black coat  
 Window: Anti-glare impact resistant glass  
 Back: EMC shield, anodised steel  
 Connectors: Placed in EMC-shield facing down  
 Protection: IP65 from front (panel mount)

#### Optional extras

Power supply: 18 – 36 VDC  
 Design: Customised front foil, Colour, Startup-picture  
 Housing: Steel cabinet with tilt, black coat, IEC60945 tested, IP44 back  
 Sun Visor: Steel visor, black coat; IEC60945 tested  
 Loudspeaker: Integrated & programmable loudspeaker  
 ECDIS / ARPA: Colour calibration

#### Environment

Operating temperature: -15 – 55 °C  
 Storage temperature: -25 – 70 °C  
 Relative humidity: 10 – 80 % (non-condensing)

#### Approvals

Environment: IACS E10  
 Radio/Navigation: IEC 60945  
 EMC: EN60945, EN55022, EN55024  
 ECDIS: IEC 61174 (when colour calibrated)  
 RADAR: IEC 60936-1/2/3 (when colour calibrated)

#### Dimensions

Panel mount: 534 x 584 x 102 mm  
 Weight: 22 Kg