

MD-124 Series

24-inch Full HD marine displays



Features and Benefits

- 24-inch Full-HD display, 16:9 aspect ratio
- LED backlighting
- Dual power supplies (AC & DC)
- Picture-in-Picture (PIP) and Picture-by-Picture (PBP)
- ECDIS color calibration (by request)
- IP66 (front) and IP22 (rear) ratings
- Surface capacity touch (Z model)

Certifications



Introduction

MD-124 marine displays are designed to meet the high requirements of industrial-grade maritime service. The 24-inch screen has a 16:9 aspect ratio and 1920 x 1080 pixel resolution, and features PIP (Picture-In-Picture) and PBP (Picture-By-Picture) functions to allow a variety of display configurations. With full range dimming, wide angle views, and IEC-60945 compliance, the MD-124 is ideal not only for ECDIS displays, but for any other marine bridge application, as well. Finally, the MD-124 also comes with both AC and DC power inputs, making it ready for installation on any ship's bridge.

Specifications

Display

| | |
|------------------------------|----------------------------|
| Active Display Area | 531.36 (H) x 298.89 (V) mm |
| Aspect Ratio | 16:9 |
| Contrast Ratio | 5000:1 |
| Max. No. of Colors | 16.7M (8-bit/color) |
| Panel Size | 24-inch viewable image |
| Panel Type | MVA |
| Pixels | 1920 x 1080 |
| Response Time | 8 ms (gray to gray) |
| Viewing Angles | 178°/178° |
| Light Intensity (Brightness) | 300 cd/m ² |

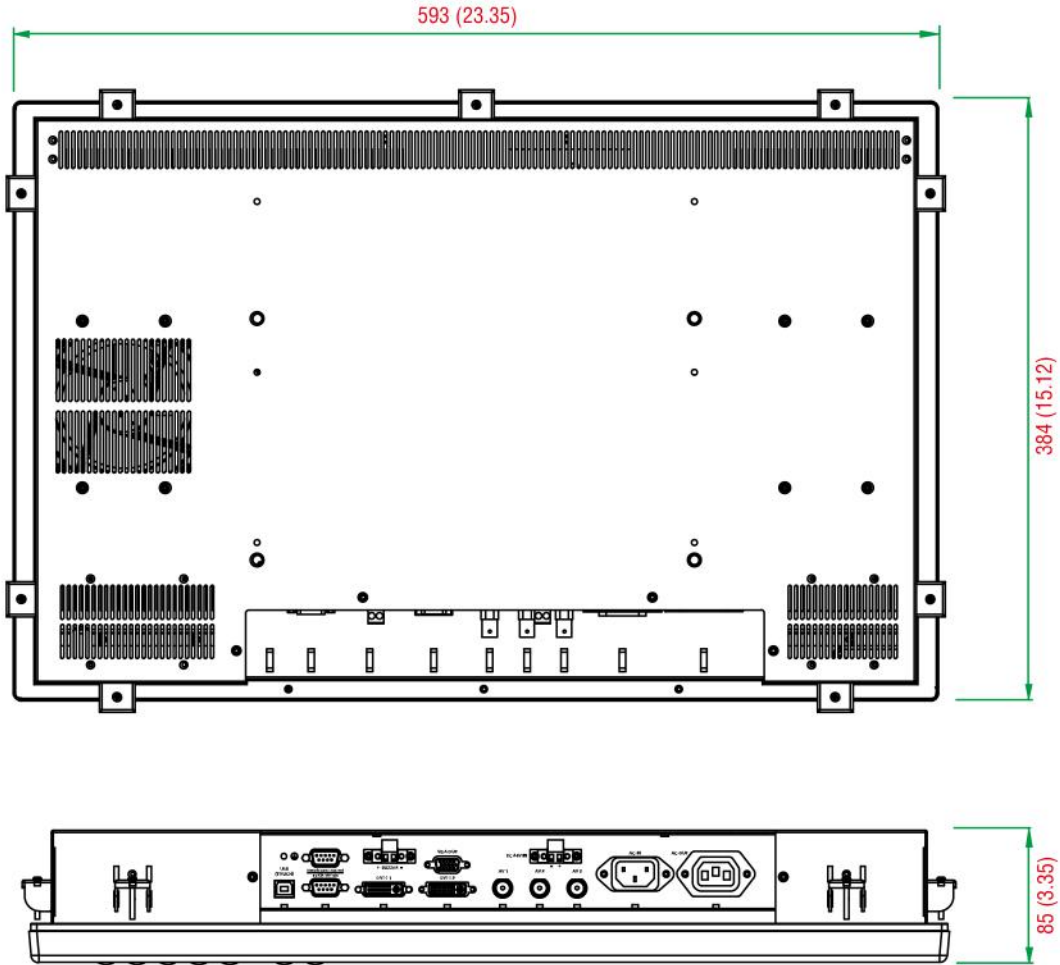
Computer Interface

| | |
|--------------|--|
| Serial Ports | RS-232/422/485 ports x 1, software-selectable (terminal block) |
| Video Input | BNC x 3 DVI-I x 2, 29-pin DVI-D connectors (female) |
| Video Output | VGA x 1, 15-pin D-sub connector (female) |

| | |
|--|---|
| Touch Function | |
| Touch Type | MD-124Z: Capacitive Touch (PCAP) MD-124X: None |
| Touch Support Points | MD-124Z: 4 points |
| Serial Signals | |
| RS-232 | TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND |
| RS-422 | Tx+, Tx-, Rx+, Rx-, GND |
| RS-485-2w | Data+, Data-, GND |
| RS-485-4w | Tx+, Tx-, Rx+, Rx-, GND |
| Power Parameters | |
| Input Voltage | 100 to 240 VAC, 24 VDC (18 to 30 V) |
| Physical Characteristics | |
| Housing | Metal |
| Dimensions | 647 x 414 x 95 mm (25.47 x 16.3 x 3.74 in) |
| Weight | 12000 g (26.46 lb) |
| Installation | Panel mounting |
| Environmental Limits | |
| Operating Temperature | -15 to 55°C (5 to 131°F) |
| Storage Temperature (package included) | -20 to 60°C (-4 to 140°F) |
| Ambient Relative Humidity | 5 to 95% (non-condensing) |
| Standards and Certifications | |
| EMC | EN 55032/24 |
| EMI | CISPR 32, FCC Part 15B Class A |
| Safety | EN 60950-1, IEC 60950-1, UL 60950-1 |
| Warranty | |
| Warranty Period | LCD: 1 year System: 3 years |
| Details | See www.moxa.com/warranty |
| Package Contents | |
| Device | 1 x MD-124 Series display |
| Cable | 1 x DVI to VGA adapter 1 x DVI-D cable 1 x VGA |
| Installation Kit | 1 x terminal block, 2-pin |
| Documentation | 1 x document and software CD 1 x quick installation guide 1 x warranty card |

Dimensions

Unit: mm (inch)



Ordering Information

| Model Name | Panel | Video Outputs | Video Inputs | Power Input | Operating Temp. |
|------------|------------------------|---------------|--------------------------------|---------------------------------|-----------------|
| MD-124X | 24" (16:9) 300 nits | 1 x VGA | 2 x DVI-I 3 x BNC Composite | 24 VDC (18-34 V) 100-240 VAC | -15 to 55°C |
| MD-124Z | 24" (16:9) 300 nits | 1 x VGA | 2 x DVI-I 3 x BNC Composite | 24 VDC (18-34 V) 100-240 VAC | -15 to 55°C |

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