

# 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 <sup>2</sup>

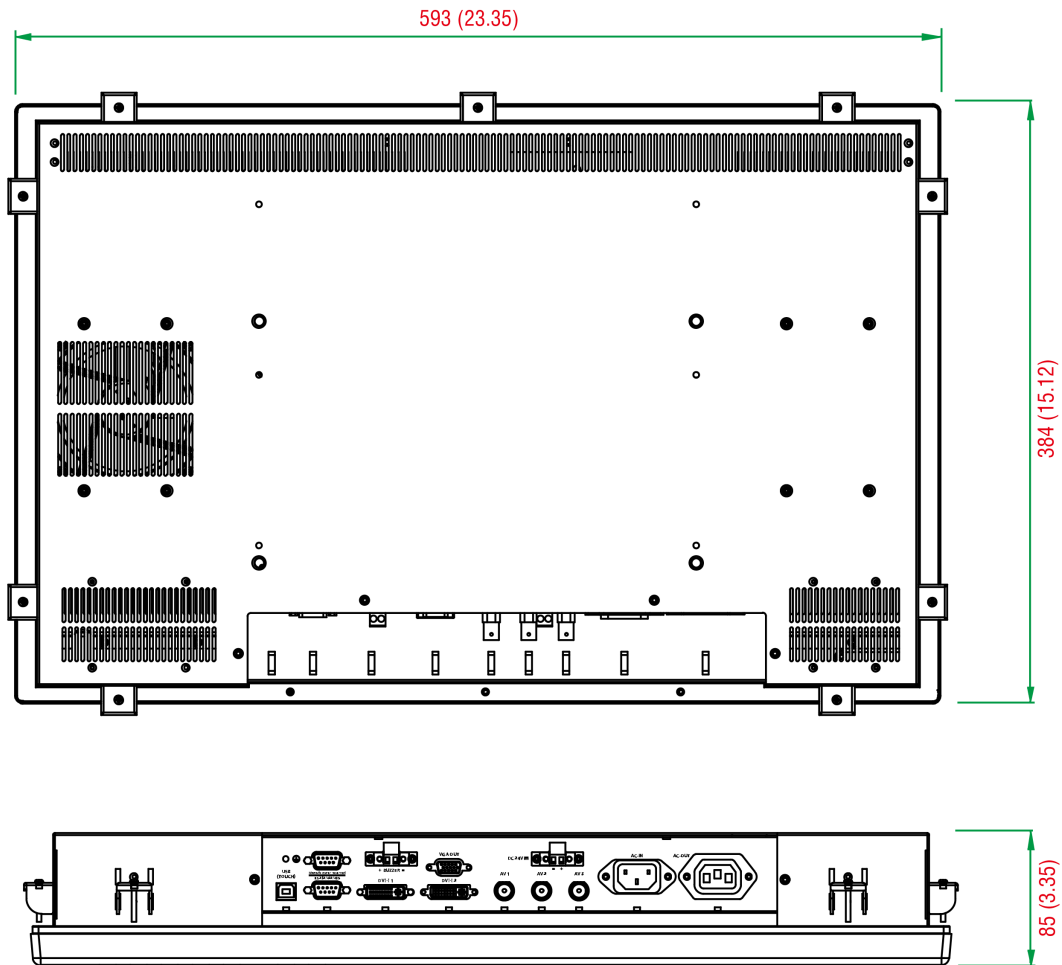
### Computer Interface

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)

<b>Touch Function</b>	
Touch Type	MD-124Z: Capacitive Touch (PCAP) MD-124X: None
Touch Support Points	MD-124Z: 4 points
<b>Serial Signals</b>	
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
<b>Power Parameters</b>	
Input Voltage	100 to 240 VAC, 24 VDC (18 to 30 V)
<b>Physical Characteristics</b>	
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
<b>Environmental Limits</b>	
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)
<b>Standards and Certifications</b>	
EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
Safety	EN 60950-1, IEC 60950-1, UL 60950-1
<b>Warranty</b>	
Warranty Period	LCD: 1 year System: 3 years
Details	See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a>
<b>Package Contents</b>	
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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