

MD-119 Series

19-inch marine displays



Features and Benefits

- 19-inch display, 5:4 aspect ratio
- LED backlighting
- Full range dimming
- Dual power supplies (AC & DC)
- Picture-in-Picture (PIP) and Picture-by-Picture (PBP)
- IP66 (front) and IP22 (rear) ratings

Certifications

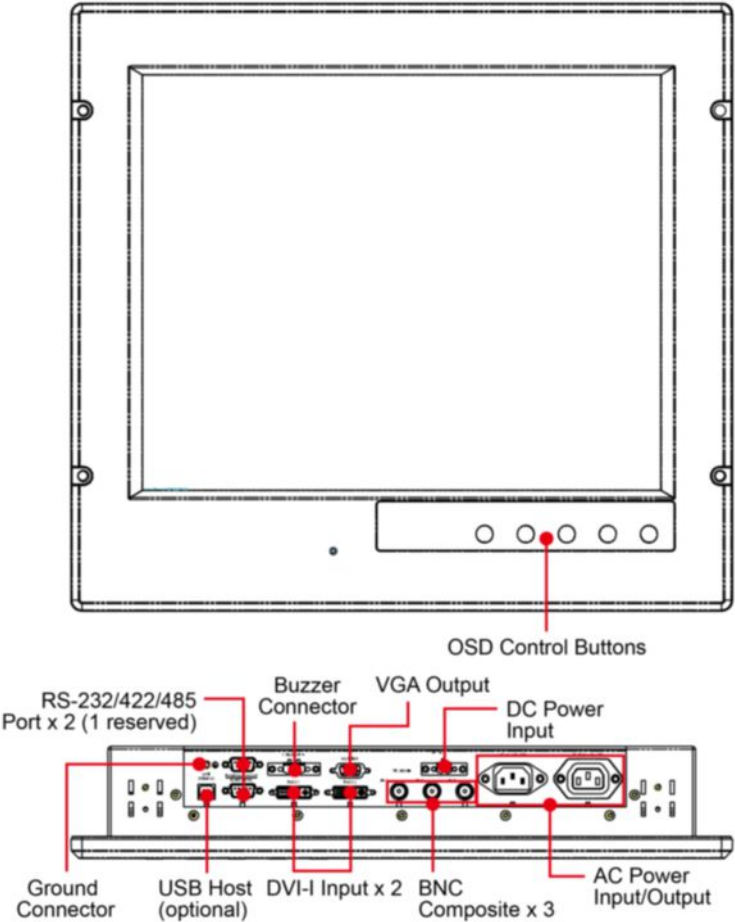


Introduction

The MD-119 Series of 19-inch marine displays is designed for durability and reliability. As an ECDIS display component, the MD-119 has a 5:4 aspect ratio with 1280 x 1024 pixel resolution, alongside full range dimming and optional optical bonding, making the MD-119 well-suited not only for ECDIS applications, but for a variety of other bridge applications as well.

The MD-119 further comes with PIP (picture-in-picture) and PBP (picture-by-picture) functions, allowing for multiple display configurations that may be tailored to a variety of situations. Finally, with both AC and DC power inputs, the MD-119 may be conveniently installed on any marine bridge, without the need for extra hardware.

Appearance



Specifications

Display

Active Display Area	376.32 (H) x 301.06 (V) mm
Aspect Ratio	5:4
Contrast Ratio	1000:1
Light Intensity (Brightness)	350 cd/m ²
Max. No. of Colors	16.7M (8-bit/color)
Panel Size	19-inch viewable image
Panel Type	TN
Pixels	1280 x 1024
Response Time	5 ms (gray to gray)
Viewing Angles	170°/160°

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)

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)
Power Consumption	0.38 mA @ 110 VAC 1.75 mA @ 24 VDC 42 W (max.)

Physical Characteristics

Housing	Metal
Dimensions	483 x 444 x 82 mm (19.02 x 17.48 x 3.23 in)
Weight	9,700 g (21.38 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

Declaration

Green Product	RoHS, CRoHS, WEEE
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Warranty

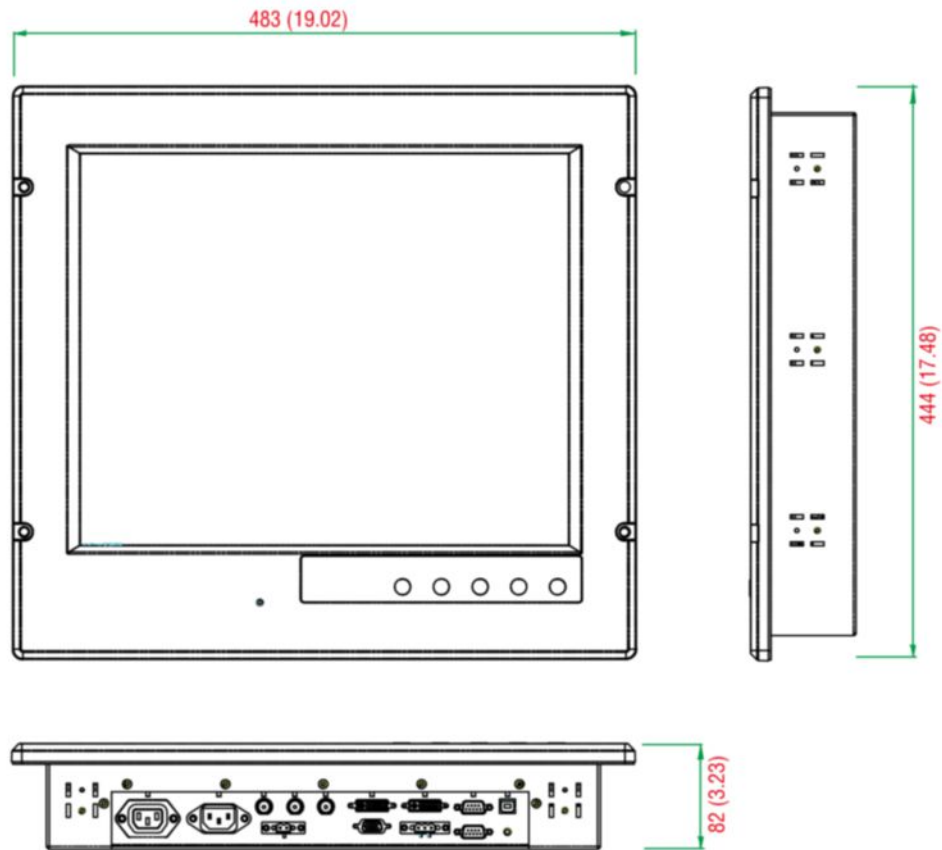
Warranty Period	LCD: 1 year System: 3 years
Details	See www.moxa.com/warranty

Package Contents

Device	1 x MD-119 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-119-X1	19" (5:4) 350 nits	1 x VGA	2 x DVI-I 3 x BNC Composite	24 VDC (18-30 V) 100-240 VAC	-15 to 55°C

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