



## MD-119

# Quick Installation Guide

First Edition, February 2013

### 1. Overview

The MD-119 Series marine displays are designed to fit the great demands of the marine industry. The 19-inch panel meets the most necessary maritime display standards and features a 4:3 aspect ratio, high definition 1280 x 1024 pixel resolution, full range dimming, and 178° wide angle viewing, making it perfect for a wide variety of marine applications, and meet the required marine standards.

### 2. Package Checklist

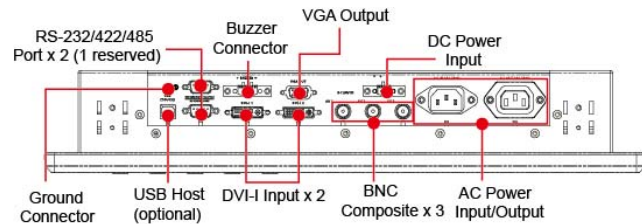
Before installing the MD-119, verify that the package contains the following items:

- MD-119-X1 display
- DVI to VGA adapter
- VGA Cable
- DVI-D Cable
- Console Mounting Kits
- DC terminal block (for powering device)
- DC terminal block (for powering the buzzer)
- Documentation and driver DVD
- Quick installation guide (printed)
- Warranty card

*Note: Please notify your sales representative if any of the above items are missing or damaged.*

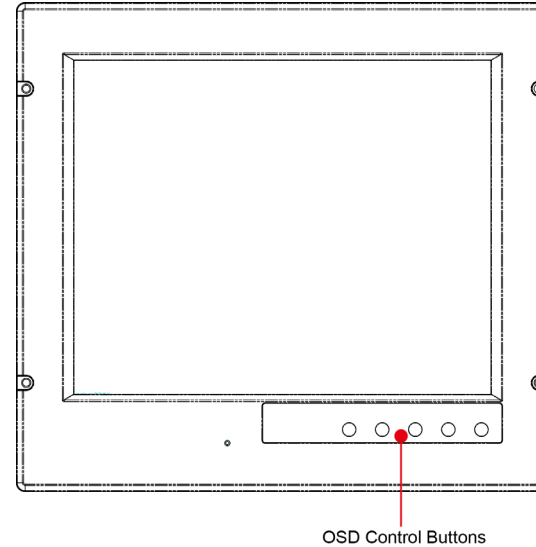
### 3. MD-119 Panel Layout

#### Bottom View



P/N: 1802001190010

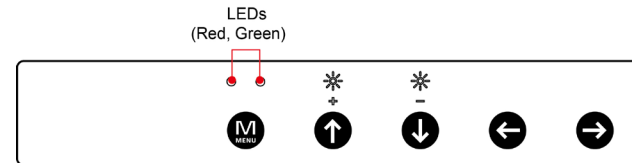
#### Front View



#### LED Indicators

The following table is a key for reading the LED indicators located on the front of the MD-119:

LED Name	LED Color	LED Function
Power	Green	Power is on and functioning normally
	Red	Display is suspended



### 4. Installing the MD-119

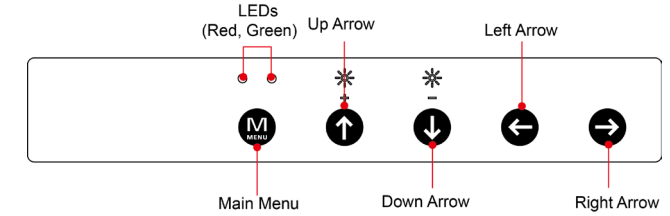
#### Wall or Cabinet Mounting

The MD-119 comes with eleven mounting plates that should be attached to the four sides of the display. Install these plates, and fasten the screws to install the display on a cabinet or a wall. For details, please refer to the MD-119 Hardware Manual.

### 5. Panel Adjustment

There are five buttons located in the right bottom corner of the panel. The **Menu** button brings up the OSD, which allows adjustment of the various display properties. Use the buttons according to the instructions detailed in the OSD help notes. To close the OSD, simply depress the **Menu** key again. You need to

provide the password to enter the configuration screen. Refer to User's Manual for details.



### 6. Connector Description

#### Power Connector

On its bottom panel the MD-119 has a terminal block that provides 24 VDC power input. Also on the bottom panel is a 110 to 230 VAC power input. An AC power output is also offered, to allow daisy-chaining the power supply to another panel.

#### Grounding the MD-119

Grounding and proper wiring practices help limit the effects of noise due to electromagnetic interference (EMI). The ground connector is located on the bottom of the MD-119. Run the ground connection from the ground screw to the grounding surface prior to connecting the power.



#### ATTENTION

This product is intended to be mounted to a well-grounded mounting surface, such as a metal panel.

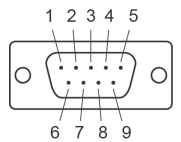
#### DVI-I Inputs and VGA Output

The MD-119 comes with two DVI-I inputs, allowing to connect two computers. In addition, a VGA output is available for extending an additional display with analog input.

#### Serial Ports

The MD-119 comes with 2 RS-232/422/485 serial ports. One port is reserved solely for manufacturer configuration. Serial port 2 terminates in a male 9-pin D-Sub (DE9) connector. It can be configured by software as an RS-232, RS-422, or RS-485 interface. Pin assignments for the ports are shown in the following table:

Pin	RS-232	RS-422	RS-485 4-wire	RS-485 2-wire
1	DCD	TxDA(-)	TxDA(-)	-
2	RxD	TxDB(+)	TxDB(+)	-
3	TxD	RxDB(+)	RxDB(+)	DataB(+)
4	DTR	RxDA(-)	RxDA(-)	DataA(-)
5	GND	GND	GND	GND
6	DSR	-	-	-
7	RTS	-	-	-
8	CTS	-	-	-



### **USB Host**

The optional USB port on the bottom of the MD-119 is used to connect the touch-screen interface to a peripheral device server. Connect the MD-119 USB port to a touch-screen device server via a standard USB cable. Drivers for the touch screen interface are provided on the MD-119 software CD.

### **BNC Composite Connectors**

The MD-119 offers three BNC composite connectors for audio/video interfaces.

### **Buzzer Terminal**

The bottom panel of the MD-119 is equipped with a terminal block for powering the buzzer. Install the leads of a 5 to 12 V power source into the terminal block marked **BUZZER** to enable the buzzer feature.

## **7. Powering on the MD-119**

To power on the MD-119, connect the "terminal block to power jack converter" to the MD-119's DC terminal block (located on the side panel), and then connect the power adaptor. For the AC input, simply connect the power cord to the power source. It takes about 5 seconds for the system to boot up. Once the system is ready, the **Power** LED on the front panel will light up. To enable the power failover function, connect both AC and DC power inputs.

---

**MOXA**<sup>®</sup> [www.moxa.com/support](http://www.moxa.com/support)

The Americas: +1-714-528-6777 (toll-free: 1-888-669-2872)
Europe: +49-89-3 70 03 99-0
Asia-Pacific: +886-2-8919-1230
China: +86-21-5258-9955 (toll-free: 800-820-5036)

© 2013 Moxa Inc., All Rights Reserved

---