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USER GUIDE AND SPECIFICATIONS

NI PMA-1115

Portable Monitor Accessory

This document includes an overview and specifications for the NI PMA-1115 Portable Monitor Accessory.

Overview

The National Instruments PMA-1115 is a monitor and keyboard accessory for use with NI 8-slot PXI chassis. It includes the following features:

- 15 in. high-brightness TFT LCD touch screen panel
- 105-key English keyboard and touchpad
- Hardware for mounting to NI 8-slot PXI chassis
- Anti-glare tempered glass for LCD protection
- VGA and DVI connectivity to the LCD
- USB connectivity to the touch screen, keyboard, and touchpad
- Sheetmetal construction
- Universal AC/DC power supply with Y-cable for single wall connection
- RoHS compliance

For complete PXI system configuration information, refer to `ni.com/pxiadvisor`.

Shipping Components

The NI PMA-1115 kit includes the following items:

- NI PMA-1115
- Adapter plate and mounting hardware
- Y-splitter power cable
- 12 V DC/AC power adapter

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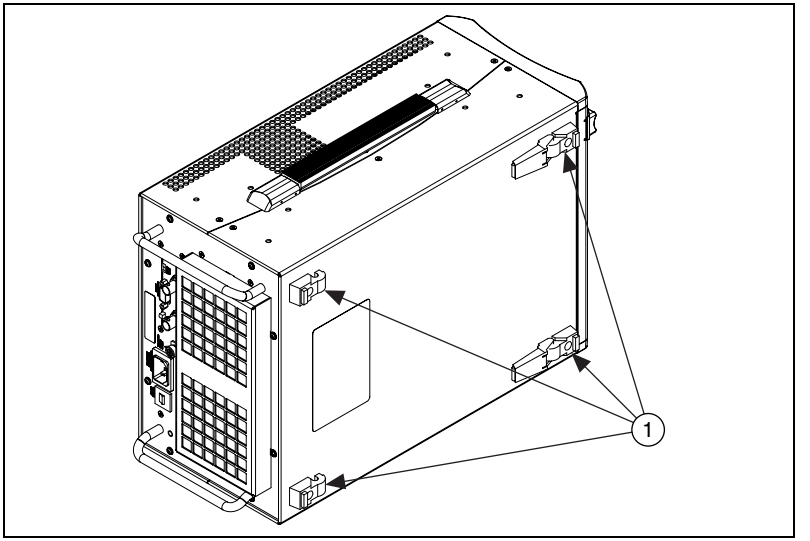
- Video cabling to connect PMA-1115 to PXI controller
- Right-angle-to-vertical USB cable
- Driver CD
- Cable ties to organize power cabling
- Interlocking fastener to secure power adapter

Mounting

The NI PMA-1115 includes a complete mounting kit for attachment to any NI 8-Slot PXI chassis. This kit contains an adapter plate with provisions to relocate the carrying handle as well as all required fasteners.

Complete the following instructions to install the NI PMA-1115.

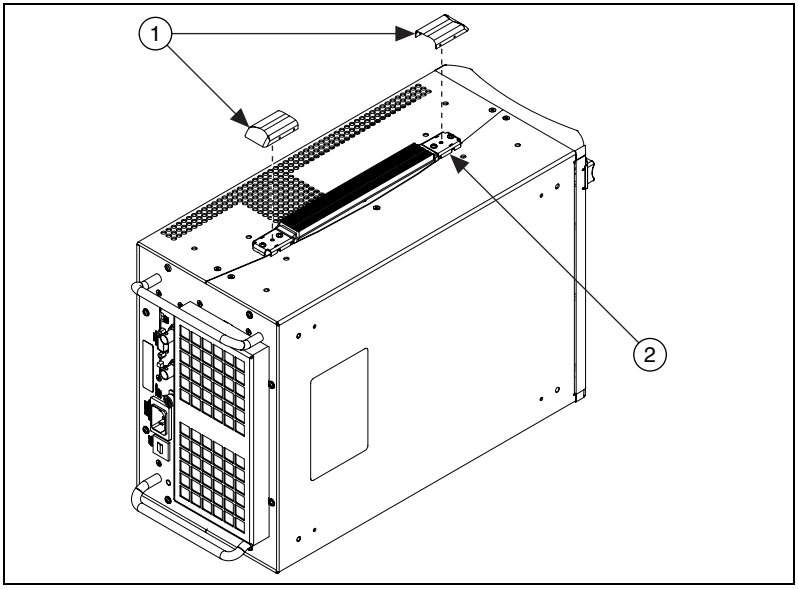
1. Place chassis on its left side, as shown in Figure 1. Remove and discard the bottom feet and screws.



1	Bottom feet

Figure 1. PXI 8-Slot Chassis On Left Side

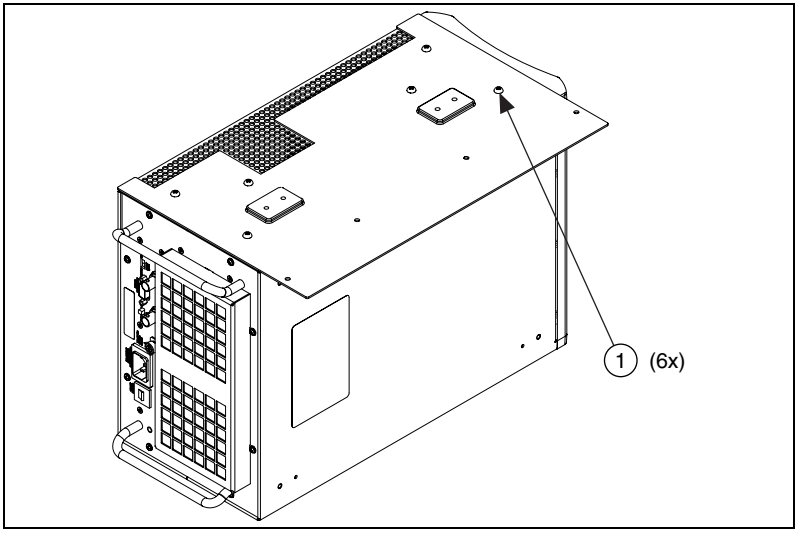
2. Using a small flat-head screwdriver, carefully remove the handle covers, as shown in Figure 2.



1	Handle covers	2	Handle assembly

Figure 2. Removing the Handle

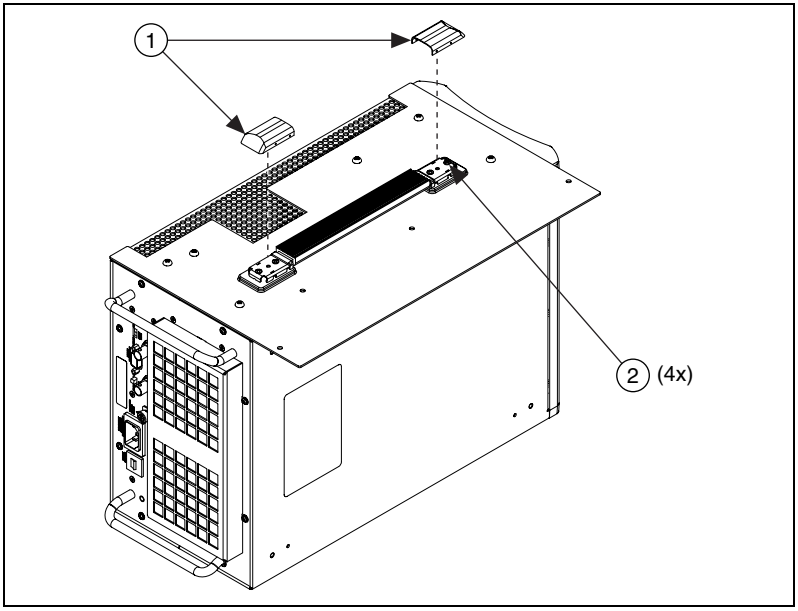
3. Remove the handle from the chassis. Retain the handle. Discard the screws.
4. Attach the adapter plate to the chassis using the supplied M4 × 8 pan-head screws, as shown in Figure 3.



1	M4 × 8 pan-head screws

Figure 3. Installing the Adapter Plate

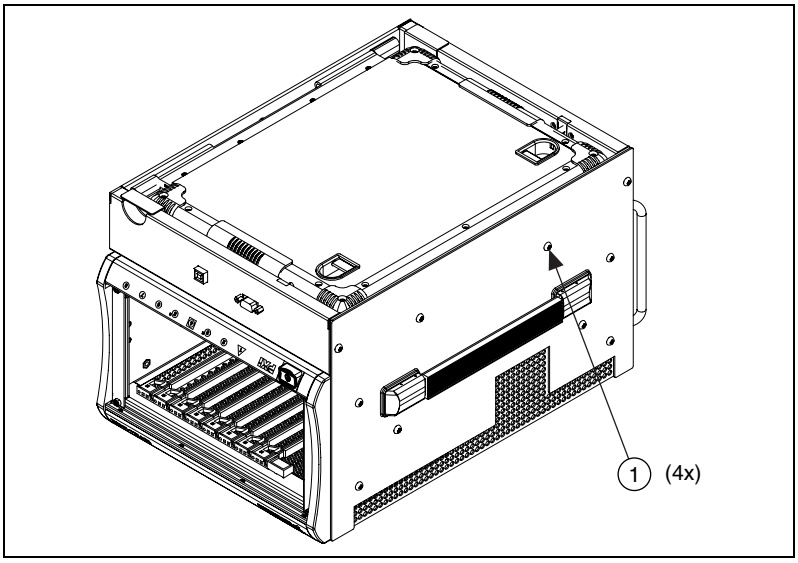
5. Reinstall the handle using the supplied 4-40 × 5/16 pan-head screws, as shown in Figure 4. Reinstall the handle covers by snapping them over the handle mounting plates.



1	Handle covers	2	4-40 × 5/16 pan-head screws

Figure 4. Reinstalling the Handle and Handle Covers

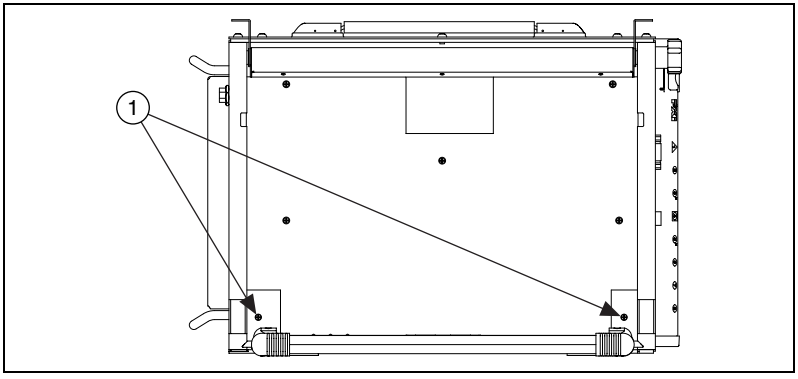
6. Orient the chassis and PMA-1115 as shown in Figure 5. Install the remaining M4 × 8 pan-head screws.



1 M4 × 8 pan-head screws

Figure 5. Installing the PMA-1115

7. Open the keyboard and LCD, as shown in Figure 6. Install the supplied 6-32 × 3/8 flat-head screws in the lower corners of the PMA-1115.



1 6-32 × 3/8 flat-head screws

Figure 6. Installing the Lower Mounting Screws

8. If desired, use the provided interlocking fastener to attach the AC adapter to the unit. One suggested location is shown in Figure 7. Cable ties are also provided to organize the power cabling.

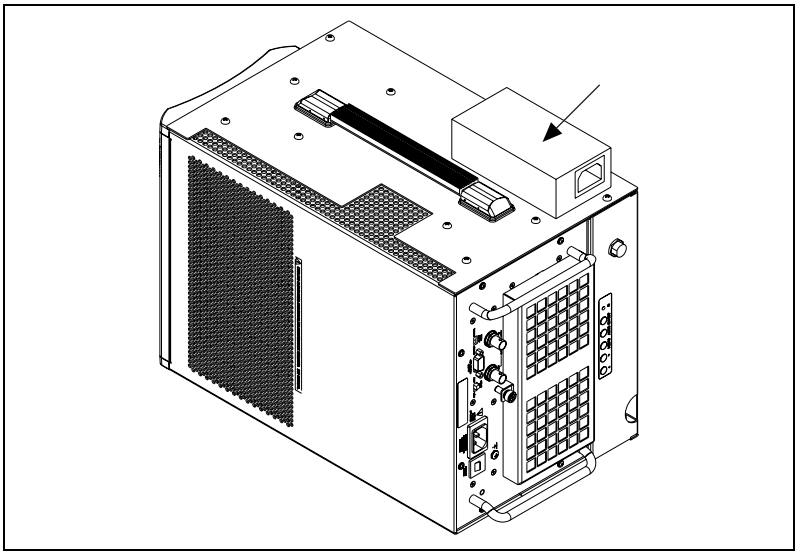


Figure 7. Suggested Location for Attaching AC Adapter

Note Do not place the AC adapter over any vent holes on the chassis cover, as this may cause chassis cooling issues.

System Configuration

The On-Screen Display (OSD) controls on the side of the PMA-1115 provide standby functionality, as well as standard video adjustments for the LCD. The touch screen can be configured and calibrated through the TouchKit software found on the provided driver CD.

Note The video resolution of the PXI Controller must be set to 1024 × 768 or lower.

Ordering Information

To order the NI PMA-1115 kit or power cords, refer to the following kit numbers.

NI PMA-1115 Kit

NI PMA-1115 Portable
Monitor Accessory 780215-01

Additional Power Cords

North American 240 VAC 763068-01

Japanese 100 VAC 763634-01

United Kingdom 240 VAC 763064-01

Swiss 220 VAC 763065-01

Australian 240 VAC 763066-01

Universal Euro 240 VAC 763067-01

Specifications

AC/DC Adapter

Input ..... 100 to 240 VAC, 47 to 63 Hz, 1.8 A maximum

Output ..... 12 VDC, 5 A

LCD

Input ..... 12 VDC, 5 A

Type ..... TFT LCD touch screen

Auto-power switch ..... LCD goes into standby when no signal is present

Power switch ..... Left side of product (STDBY)

Diagonal size ..... 15 in. (38.11 cm)

Maximum resolution ..... 1024×768

Display area	11.97 × 8.98 in. (30.41 × 22.81 cm)
Contrast ratio	500:1
Brightness	300 NTS
Frame rate	60 Hz (typical), 75 Hz (maximum)
Color	16.2 M colors
Viewing angle	160° up and down 160° right and left
Control system	On screen display
Connectivity	VGA or DVI-I

Keyboard and Mouse

Keyboard	105-key, English language
Mouse	Touchpad
Connectivity	USB

Mechanical

Overall dimensions	14.75 × 2.31 × 11 in. (37.47 × 5.87 × 27.94 cm) without mounting plate
Weight	5.0 kg (11 lb)
LCD monitor folding angle	Up to 80°

Environmental

Maximum altitude	2,000 m (800 mbar) (at 25 °C ambient)
Pollution Degree	2

For indoor use only.

Operating Environment

Ambient temperature range..... 0 to 50 °C
(Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2. Meets MIL-PRF-28800F Class 3 low temperature limit.)

Relative humidity range..... 10 to 90%, noncondensing.
(Refer to Figure 8 for the correlation between temperature and humidity. Tested in accordance with IEC-60068-2-56.)

Storage Environment

Ambient temperature range..... –20 to 60 °C
(Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)

Relative humidity range..... 10 to 90%, noncondensing.
(Refer to Figure 8 for the correlation between temperature and humidity. Tested in accordance with IEC-60068-2-56.)

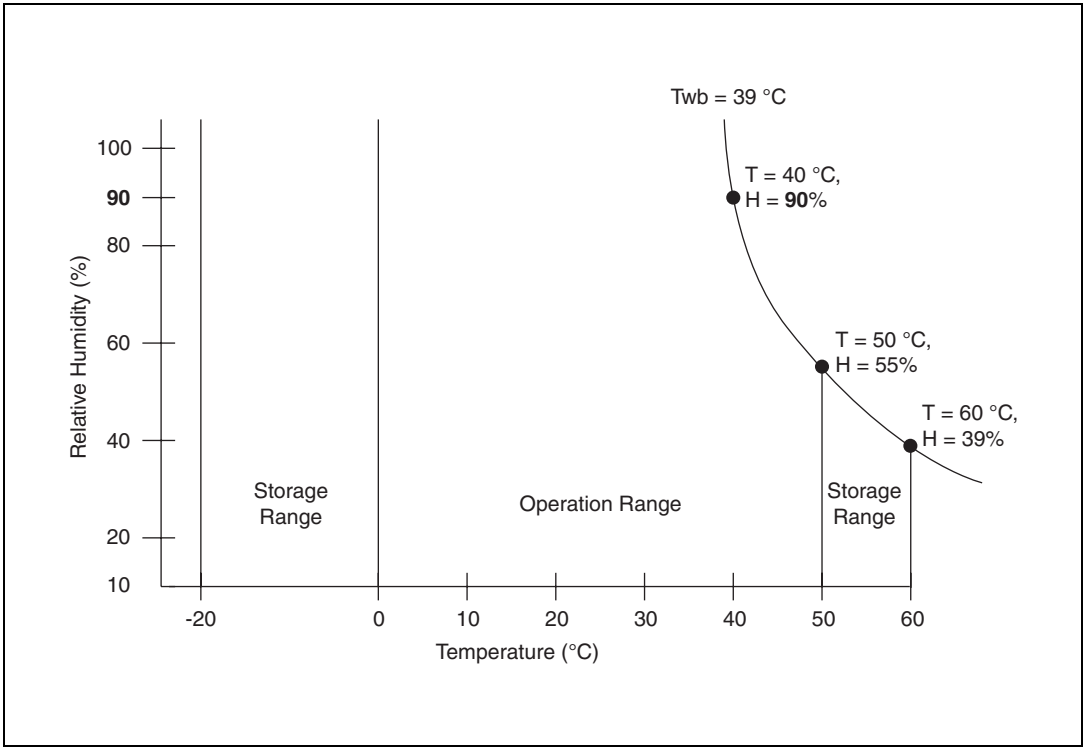


Figure 8. Temperature/Humidity Relationship

Shock and Vibration

Operational shock .....10 g peak, half-sine, 11 ms pulse (Tested in accordance with IEC-60068-2-27.)

Random Vibration

Operating .....5 to 500 Hz, 0.31 g_{rms}

Nonoperating .....5 to 500 Hz, 2.46 g_{rms} (Tested in accordance with IEC-60068-2-64. Nonoperating test profile exceeds the requirements of MIL-PRF-28800F, Class 3.)

Safety and Compliance

Safety

This product is designed to meet the requirements of the following standards of safety for information technology equipment:

- IEC 60950-1, EN 60950-1
- UL 60950-1, CSA 60950-1

Note For UL and other safety certifications, refer to the product label or visit `ni.com/certification`, search by model number or product line, and click the appropriate link in the Certification column.

Electromagnetic Compatibility

This product is designed to meet the requirements of the following standards of EMC for electrical equipment for information technology equipment:

- EN 55024, CISPR 24
- EN 55022, CISPR 22
- CE, C-Tick, ICES, and FCC Part 15 Emissions; Class A

Note For EMC compliance, operate this device according to product documentation.

CE Compliance

This product meets the essential requirements of applicable European Directives, as amended for CE marking, as follows:

- 2006/95/EC; Low-Voltage Directive (safety)
- 2004/108/EC; Electromagnetic Compatibility Directive (EMC)

Note Refer to the Declaration of Conformity (DoC) for this product for any additional regulatory compliance information. To obtain the DoC for this product, visit `ni.com/certification`, search by model number or product line, and click the appropriate link in the Certification column.

Environmental Management

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Waste Electrical and Electronic Equipment (WEEE)



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电子信息产品污染控制管理办法 （中国 RoHS）



中国客户 National Instruments 符合中国电子信息产品中限制使用某些有害物质指令 (RoHS)。
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