



**PRISM MPI
Media Analysis Platform
Dual Rack Cabinet Installation
Instructions**

www.tek.com



071-3501-02

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- In North America, call 1-800-833-9200.
- Worldwide, visit www.tek.com to find contacts in your area.

Important safety information

Service safety summary

The *Service safety summary* section contains additional information required to safely perform service on the product. Only qualified personnel should perform service procedures. Read this *Service safety summary* and the *General safety summary* before performing any service procedures.

To avoid electric shock. Do not touch exposed connections.

Do not service alone. Do not perform internal service or adjustments of this product unless another person capable of rendering first aid and resuscitation is present.

Disconnect power. To avoid electric shock, switch off the product power and disconnect the power cord from the mains power before removing any covers or panels, or opening the case for servicing.

Use care when servicing with power on. Dangerous voltages or currents may exist in this product. Disconnect power, remove battery (if applicable), and disconnect test leads before removing protective panels, soldering, or replacing components.

Verify safety after repair. Always recheck ground continuity and mains dielectric strength after performing a repair.

Dual rack cabinet installation

There are two optional dual rack cabinets (19", 3RU) available for the PRISM MPI monitor:

- **MPI-RACK-MM.** Allows you to install one MPI unit or two MPI units side-by-side. Each side of the cabinet front panel has two USB ports and a headphone jack for each MPI unit.
- **MPI-RACK-MW.** Allows you to install one MPI unit or one MPI unit in a side-by-side installation with a Tektronix WFM52x0, WFM7200, WFM8x00 waveform monitor. The left side of the cabinet front panel has two USB ports and a headphone jack for one MPI unit.

Dual rack cabinet cooling and clearance requirements



CAUTION. *To prevent risk of fire, adequate airflow to instrument(s) and rack adapter must be maintained. Failure to provide adequate airflow to instrument(s) could cause an instrument to shut down.*

Inadequate airflow includes placing instrument(s) and rack adapter in any small, enclosed room that lacks a ventilation system, such as a closet. If the airflow is restricted or blocked and the instrument(s) do not shut down, the risk of fire is increased and the instrument(s) could be permanently damaged.

The instrument has specific cooling and clearance requirements. Ensure that the clearance requirements for proper airflow are met for both the dual rack cabinet and the instrument. See the *PRISM Installation and Safety Instructions* manual for information about the environmental operating requirements for the instrument.

Table 1: Clearance requirements for the dual rack cabinet

Instrument side	Clearance requirement
Top and bottom	None
Left and right sides	2 in (51 mm)
Front	None
Rear	3 in (76 mm)

Supplied hardware

The following table lists the hardware supplied with the dual rack cabinet kit. The installation instructions includes references to these parts by the item numbers to aid in selecting the correct parts.

Table 2: Supplied hardware

Item number	Tektronix part number	Description	Quantity
1	210-1061-00	WASHER, FLAT; 0.203 ID X 0.625 OD X 0.062, ZINC PLATED STEEL	4
2	210-1298-01	WASHER; SHOULDER & RETAINER, 0.195 ID X 0.195 THK, PLASTIC, TV GRAY, 6.575 OD	4
3	211-0511-00	SCREW, MACHINE; 6-32 X 0.5, PNH, STEEL, ZINC PLATED, T15 TORX	8
4	211-0718-00	SCREW, MACHINE; 6-32 X 0.312, FLH100, STEEL, ZINC FINISH, T-10 TORX DR	4
5	212-0577-00	SCREW, MACHINE; 10-32 X 0.625, TRH, ZINC PLATED STEEL, PHIL	8
6	212-0591-00	SCREW, MACHINE; 10-32X.750 OVAL HEAD, POZI	4
7	381-0251-01	NUT BAR; 10-32 X 3.0 X 0.375 X 0.120	4
8	407-3752-00	BRACKET, EXT; 2.5 X 8.06 X 0.06, STEEL; SAFETY CONTROLLED	2
9	407-6011-00	RACK MOUNT, INSTRUMENT MTG BRACKET, 5000 SERIES	1

Install the dual rack cabinet in the equipment rack

Before you install an instrument into the rack adapter, install the adapter into the rack as follows:

1. Position the dual rack cabinet so that the headphone jack(s) on the front of the cabinet is on the bottom. (See Figure 1.)

NOTE. *The MPI-RACK-MM cabinet has headphone jacks on both sides of the cabinet; the MPI-RACK-MW cabinet has one headphone jack on the left side of the cabinet.*

2. **MPI-RACK-MW only:** Perform the following steps if you are installing a WFM52x0 waveform monitor in a MPI-RACK-MW cabinet:
 - a. Install the WFM52x0 bracket (item 9 in Table 2) in the right side of the cabinet as shown. (See Figure 1.)
 - b. Secure the WFM52x0 bracket to the cabinet using four screws (item 4 in Table 2).
3. If desired, you can adjust the position of the handle brackets to mount the adapter flush with other equipment in the rack. To do this, loosen the nuts that attach the handle brackets to the rack adapter, adjust the position of the handle brackets as desired, and then tighten the nuts securely. (See Figure 2.)
4. Secure the rack adapter assembly to the front frame of the rack using four screws (item 6 in Table 2) and four shoulder washers (item 2 in Table 2).
5. Install one guide bracket (item 8 in Table 2) to one side of the rear frame of the rack using two screws (item 5 in Table 2) and one nut bar (item 7 in Table 2) as shown. (See Figure 1.)
6. Secure the guide bracket to the cabinet using two screws (item 5 in Table 2), two washers (item 1 in Table 2) and one nut bar (item 7 in Table 2). Use the holes in the bracket that will accommodate the depth of the instrument rack frame being used. Leave the screws loose.
7. Repeat steps 5 and 6 to install the second guide bracket to the other side of the cabinet.
8. Tighten all of the attaching screws that were left loose in the previous steps.

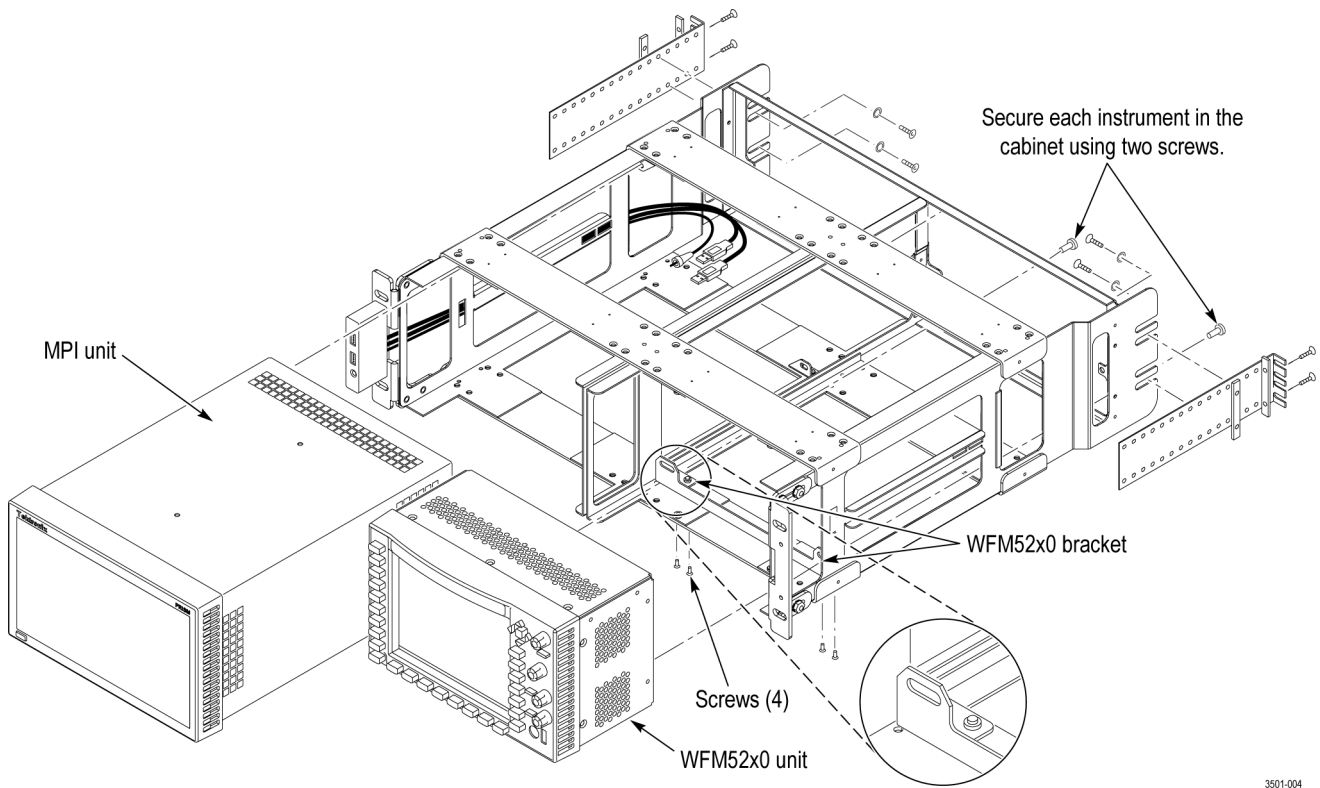


Figure 1: Installing one MPI monitor and one WFM52x0 waveform monitor in the MPI-RACK-MW dual rack cabinet

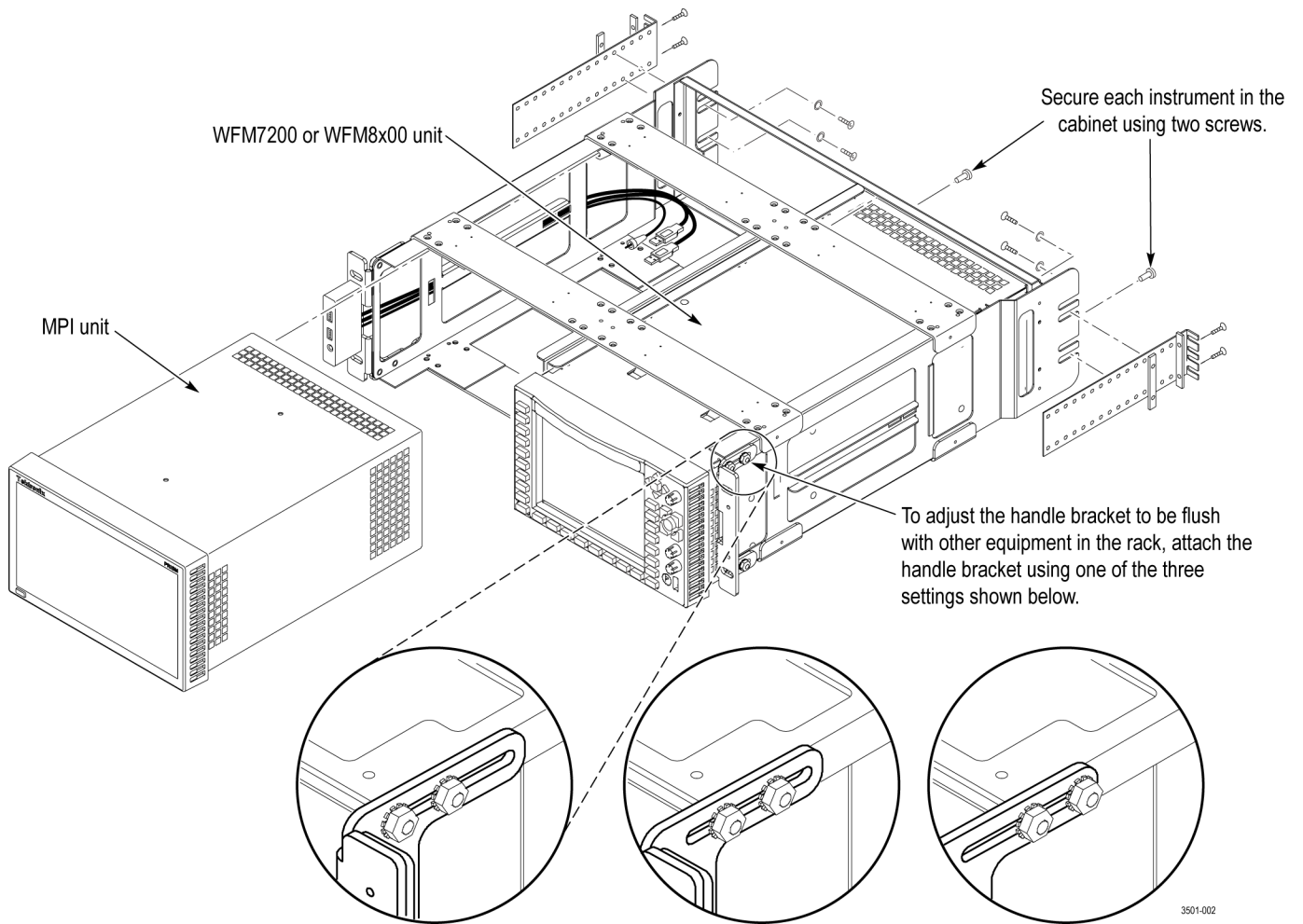


Figure 2: Installing one MPI monitor and one WFM7200 or WFM8x00 waveform monitor in the MPI-RACK-MW dual rack cabinet

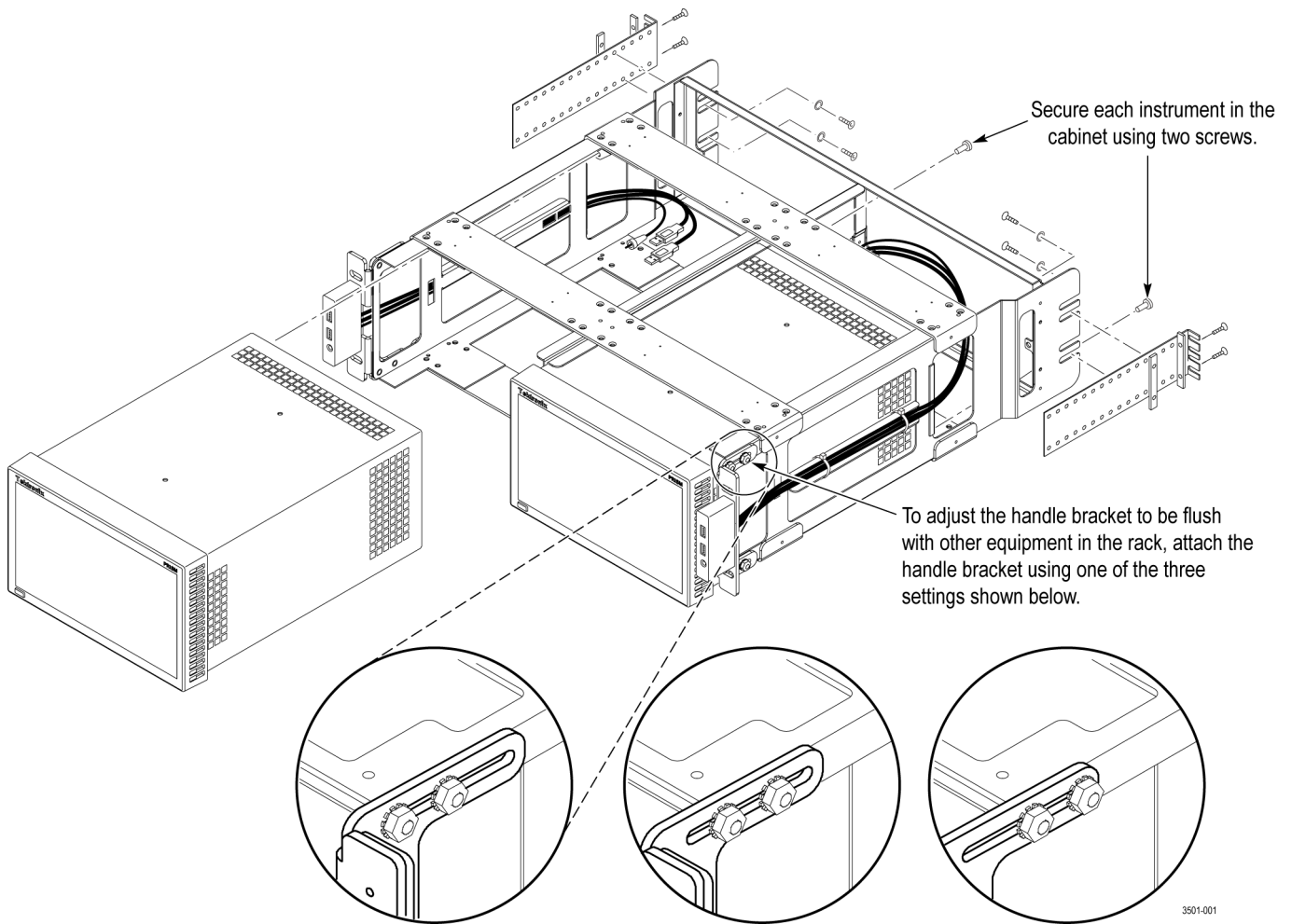


Figure 3: Installing two MPI monitors in the MPI-RACK-MM dual rack cabinet

Install instrument(s) in the dual rack cabinet

After you install the dual rack cabinet in the equipment rack, perform the following steps to install instrument(s) in the cabinet:

1. Install an MPI unit in the dual rack cabinet: (See Figure 1.) (See Figure 2.) (See Figure 3.)

- a. Slide an MPI unit into the left slot in the dual rack cabinet.

NOTE. For the MPI-RACK-MW cabinet, the MPI unit must be installed in the left slot of the cabinet. For the MPI-RACK-MM cabinet, you can install the MPI unit in the left or right slot of the cabinet.

- b. Use two screws (item 3 in Table 2) to secure the instrument in the dual rack cabinet. The screws attach to the top right and bottom left holes in the instrument chassis as viewed from the rear.

- c. Connect the cables from the USB ports and headphone jack on the dual rack cabinet to the rear of the instrument. (See Figure 4.)

- d. Connect power, signal, and Ethernet cables to the instrument as needed. See the *PRISM Installation and Safety Instructions* manual for information about making signal connections to the instrument.

2. For the MPI-RACK-MM cabinet only, repeat step 1 to install a second MPI unit in the right slot of the dual rack cabinet.

3. For the MPI-RACK-MW cabinet only:

- a. Install a Tektronix WFM52x0, WFM7200, or WFM8x00 waveform monitor in the right slot of the dual rack cabinet. (See Figure 1.) (See Figure 2.)

- b. Use two screws (item 3 in Table 2) to secure the waveform monitor in the dual rack cabinet. The screws attach to the right and left holes in the middle of the instrument chassis as viewed from the rear.

- c. Connect power and signal cables to the waveform monitor as needed.

NOTE. See the installation manual for your waveform monitor for information about making power and signal connections to the instrument.

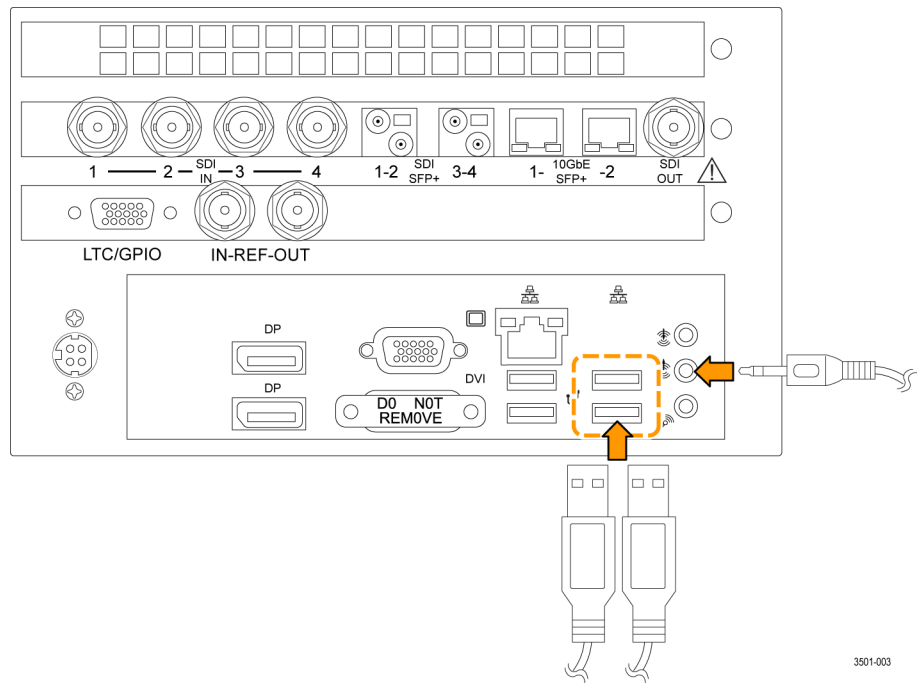


Figure 4: Connecting the cabinet USB and audio cables to the PRISM monitor

Product documentation

The user documentation for your PRISM monitor is listed in the following table. Check the Tektronix Web site for the latest version of the documents (www.tek.com/downloads).

Table 3: PRISM product documentation

Document	Tektronix Part Number	Description	Availability	
			Print	Web
Installation and Safety Instructions	071-3479-xx (English)	Describes how to install the instrument and provides basic safety and operating information	✓	✓
	077-1215-xx (Russian)			✓
User Manual	077-1216-xx (English)	Provides detailed operating information		✓
	077-1218-xx (Russian)			
Specifications and Performance Verification	077-1219-xx	Lists the product specifications and provides procedures for verifying the performance of the instrument		✓
Service Manual	077-1220-xx	Describes how to service the instrument to the module level (such as circuit boards and fuses)		✓
Declassification and Security Instructions	077-1221-xx	Describes how to clear or sanitize the data storage (memory) devices in the product for customers with data security concerns.		✓
Release Notes	077-1222-xx	Describes the new features, improvements, and limitations of the instrument firmware		✓