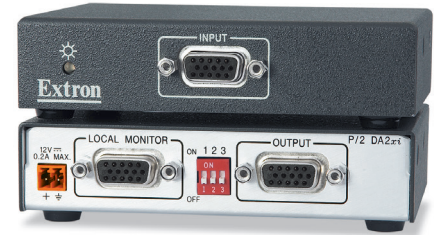


P/2 DA2xi • User Guide

The P/2 DA2xi is a high performance one input, two output distribution amplifier that accepts video input from a VGA-QXGA compatible PC and distributes that signal to separately buffered outputs. The output can be extended with Extron MHR cables up to 250 feet in length (XGA resolution signal).

The P/2 DA2xi routes all video ID bits to its local monitor output to allow for automatic resolution selection by DDC1 and DDC2 (plug and play cards and projector).



FCC Class A Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. The Class A limits provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference. This interference must be corrected at the expense of the user.

NOTE: For more information on safety guidelines, regulatory compliances, EMI/EMF compatibility, accessibility, and related topics, see the “[Extron Safety and Regulatory Compliance Guide](#)” on the Extron website.

Specifications Availability

Product specifications are available on the Extron website, www.extron.com.

Features

- **Power LED** — useful in system troubleshooting
- **Impedance DIP switches** — for solving laptop compatibility problems and reflection problems due to long cable runs
- **Bandwidth** — 300 MHz (-3 dB) RGB video bandwidth maintains signal integrity
- **ID bits pass-through** — routes ID bits to the local monitor output to allow automatic scan rate selection by DDC

Mounting the P/2 DA2xi

Attention:

- Installation and service must be performed by authorized personnel only.
- L'installation et l'entretien doivent être effectués par le personnel autorisé uniquement.

The 1-inch high, quarter rack width P/2 DA2xi can be placed on a tabletop, mounted on a rack shelf, mounted under a desk or tabletop, or mounted on a projector bracket.

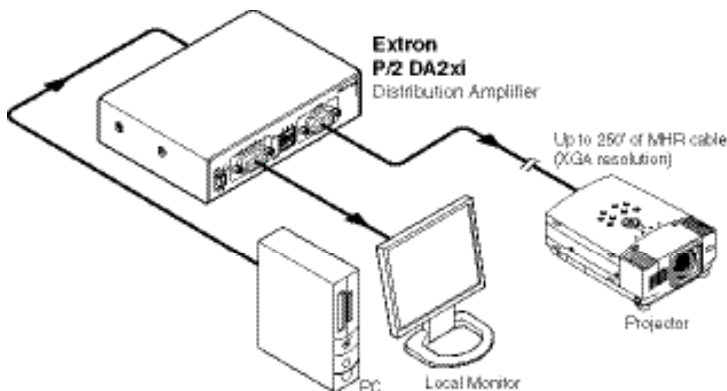


Figure 1. Tabletop Placement

Attach the four included rubber feet to the bottom of the distribution amplifier and place it in any convenient location.

Optional Mounting

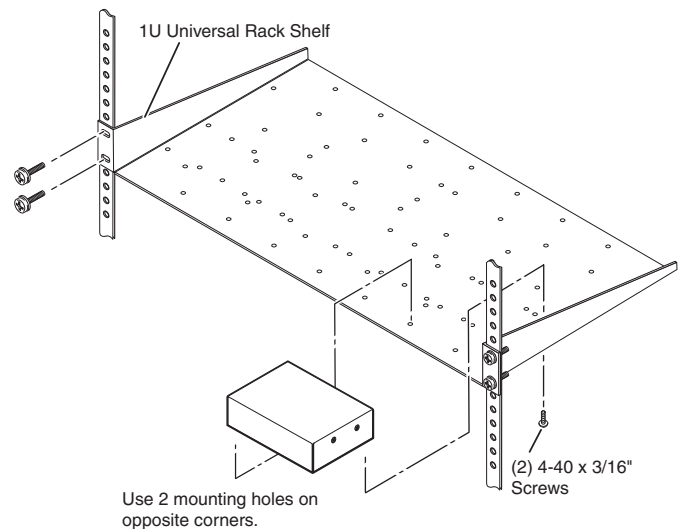
NOTE: Accessory part numbers are available on the Extron website, www.extron.com.

The P/2 DA2xi can be mounted using the following mounting kits:

- RSU 126 6" deep universal rack shelf kit
- RSB 126 6" deep basic rack shelf
- RSU 129 1U universal rack shelf kit
- RSB 129 1U basic rack shelf
- MBU 125 1U under-desk mounting kit
- MBD 129 1U through-desk mounting kit

The unit can be mounted in the front or the rear of the rack, as shown in the following illustration.

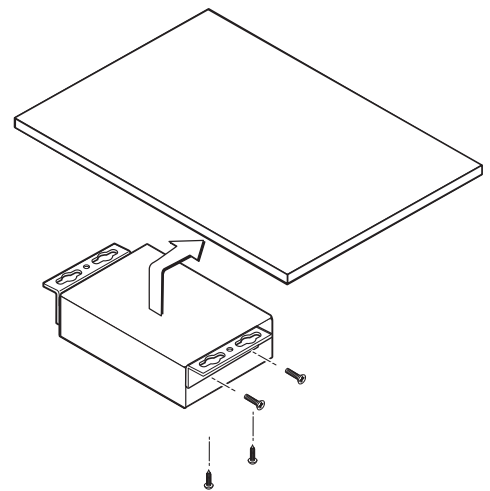
1. Remove the feet from the bottom of the P/2 DA2xi, if they are installed.
2. Mount the unit using two 4-40 x 3/16 inch screws in opposite (diagonal) corners to secure the P/2 DA2xi to the shelf.
3. Install false faceplates or other units to the rack shelf.



Under-furniture Mounting

The P/2 DA2xi can be mounted under a table or other horizontal surface using an optional Extron MBU 125 under-desk mounting kit. Mount the unit under a desk or table, as follows:

1. Secure the under-desk mounting brackets to the distribution amplifier with the four machine screws provided in the mounting kit.
2. Hold the unit with attached brackets against the underside of the desk or other furniture. Mark the location of holes for screws on the desk.
3. Drill 1/4 inch (6.4 mm) deep, 3/32 inch (2 mm) diameter pilot holes in the table or desk at the marked screw locations from the underside or inside (the concealed side) of the furniture, where the distribution amplifier will be located.
4. Insert the four wood screws into the pilot holes. Fasten each screw into the installation surface until just less than 1/4 inch of the screw head protrudes.
5. Align the installed screws with the slots in the mounting brackets, and place the unit against the surface, with the screws through the bracket slots.
6. Slide the unit slightly forward or back, then tighten all four screws to fasten it in place.



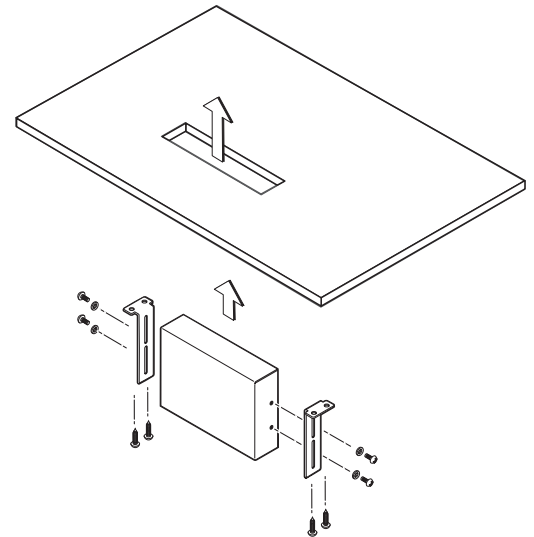
Through-furniture Mounting

The distribution amplifier can be mounted through a desk or other furniture using an optional Extron MBD 129 through-desk mounting kit. Mount the P/2 DA2xi through a desk or table, as follows:

1. Loosely attach the mounting brackets to the unit using the four machine screws and washers supplied with the mounting kit.
2. Hold the distribution amplifier against the inside of the surface through which it will be mounted. Mark the four screw holes on the inside of the surface to which you are mounting the device.
3. Drill four pilot holes, each 3/32 inch in diameter by 1/4 inch deep, where you made marks.
4. Using the four wood screws provided, secure the brackets to the mounting surface.
5. Slide the unit up and down in the mounting brackets until the face of the unit is at the desired height. Tighten the screws that secure the bracket in place.

If the screws are inaccessible to a screwdriver:

- a. Mark the location of the brackets relative to the screws.
- b. Remove the P/2 DA2xi from inside the furniture.
- c. Tighten the screws.
- d. Replace the unit inside the surface (step 4).

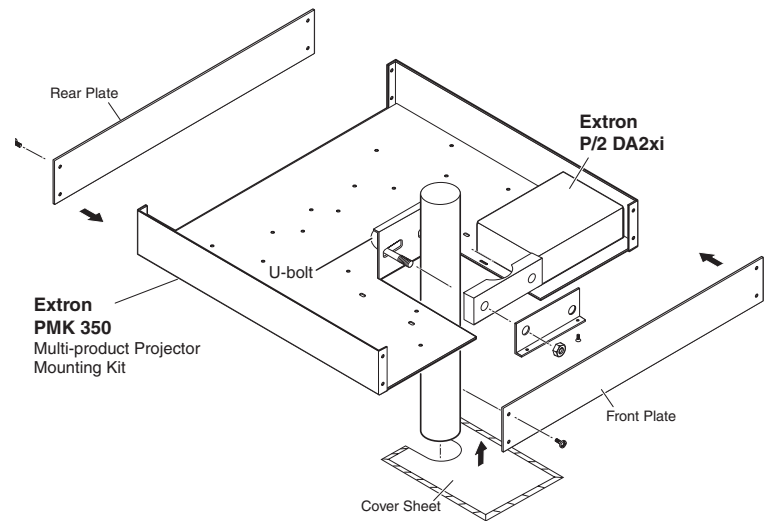


Projector Mounting

The PMK 350 Low Profile Projector Mount Kit is an above-projector mounting kit that attaches to a 1 inch to 2 inches diameter projector mounting pole. It can hold more than one device, in a variety of sizes. The PMK 350 is available in black or white.

Follow these steps to mount the P/2 DA2xi on the PMK 350 bracket as follows:

1. Remove the front and back panels from the PMK 350, using an Extron Tweezer or other small Philips screwdriver. (Retain the screws to reattach the plates when you are finished.)
2. Remove any rubber feet from the bottom of the P/2 DA2xi.
3. Secure the P/2 DA2xi to one side of the mounting bracket, using two of the supplied 4-40 x 3/16 inch screws in opposite (diagonal) corners.
4. Using the two included tie wraps, strap the P/2 DA2xi power supply to the PMK 350 bracket.
5. Place the bracket around the projector ceiling mounting pole as shown in the previous illustration.
6. Place the rubberized contoured base against the pole and opposite the back plate. The pole should fit snugly into the depression in the center of the contoured base.
7. Align the two slotted holes in the bottom of the L-shaped bracket with the two slotted holes in the base of the PMK 350, on either side of the opening for the pole. Attach the L-bracket to the base by inserting two provided 6-32 x 5/16 inch screws through the aligned slots.
8. Insert the two legs of the provided square U-bolt through the following parts in the order they are listed below:
 - The slotted holes on the back side of the bracket mount plate
 - The round holes in the rubberized contour base
 - The round holes in the L-shaped bracket



For a typical (1.5 inches to 2.0 inches diameter) pole — You can use the supplied square U-bolt, which fits a typical ceiling pole.

For a smaller pole — Locally obtain a square U-bolt that fits your ceiling pole. The slotted holes on the bracket can accommodate a square U-bolt for pole sizes from 1.0 inch to 2.0 inches in diameter.

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9. Move the PMK 350 up to the desired location on the ceiling pole, as close to the ceiling as desired.
10. Secure the L-shaped bracket to the square U-bolt using the included hex nuts, washers, and lock washers. Tighten the hex nuts securely.

NOTE: Be sure to tighten the hex nuts securely enough that the PMK 350 does not slide down the ceiling pole. A socket wrench is recommended to tighten the hex nuts.

11. Secure the front panel to the mounting tray with four of the included #6 screws.
12. If desired, choose one of the provided four sizes of self-adhesive cover sheets, and apply it to the underside of the mounting tray.

Cabling 15-pin HD Connections

1. Power off the computer and its local monitor.
2. Connect the computer VGA output to the “Input” of the distribution amplifier (see [Front Panel Features](#)).
3. Connect the computer monitor to the “Local Monitor” output and connect the display device to the “Output” of the distribution amplifier (see [Rear Panel Features](#)). Set the DIP switches for the input and output impedance, and set the gain/peaking DIP switch for the “Output” device.
4. Plug in the distribution amplifier’s power supply and power on the local monitor, computer, and display device.

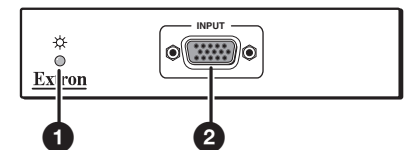
Cabling BNC Connections

Use an Extron SY adapter to connect the P/2 DA2xi 15 HD VGA output to BNC connectors on the display device.



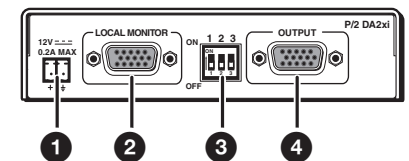
Front Panel Features

- 1 **Power LED indicator** —
 - Green LED = power and signal
 - Amber LED = power but no signal
 - Off = no power
- 2 **Input connector** — Connect the computer VGA output to the 15-pin HD female connector.



Rear Panel Features

- 1 **Power supply** — Connect the included external 12 VDC, 1 A power supply to the 2-pole 3.5 mm captive screw connector. Be careful to observe the correct polarity (see [Power Supply Wiring](#) below for wiring instructions).
- 2 **Local Monitor connector** — Connect the computer monitor to the 15-pin HD connector.
- 3 **DIP Switches** —
 - **Switch 1 (sync input impedance)** — Default setting is down (510 ohms).
If the image from a laptop computer becomes unstable, slide the switch up (10k ohms).
 - **Switch 2 (sync output impedance)** — Default setting is up (50 ohms).
If the front LED is green and all the input and output cables are OK, but there is no image at the projector, slide the switch down (75 ohms).
 - **Switch 3 (video gain/peaking)** —
Slide the switch down (off) if the output cable length is under 100 feet (30 m).
Slide the switch up (on) if the output cable length is over 100 feet (30 m).



NOTE: The gain/peaking switch does not affect the Local Monitor output.

- 4 **Output connector** — Connect the display device to the 15-pin HD connector.

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Power Supply Wiring

Wire the P/2 DA2xi power connector, as shown below.

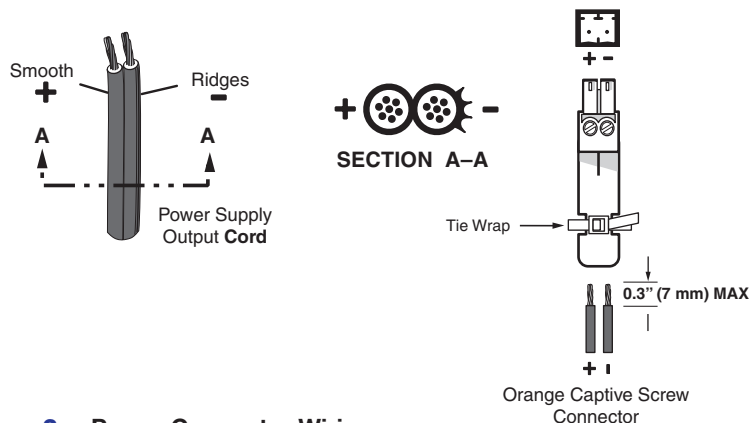


Figure 2. Power Connector Wiring

CAUTION:

ATTENTION :

- Power supply voltage polarity is critical. Incorrect voltage polarity can damage the power supply and the P/2 DA2xi. Identify the power cord negative lead by the ridges on the side of the cord.
- La polarité de la source d'alimentation est primordiale. Une polarité incorrecte pourrait endommager la source d'alimentation et l'unité. Repérez le pôle négatif du cordon d'alimentation grâce aux stries sur le côté du cordon.
- The length of the exposed wires in the stripping process is critical. The ideal length is 3/16 inches (5 mm). Any longer and the exposed wires may touch, causing a short circuit between them. Any shorter and the wires can be easily pulled out even if tightly fastened by the captive screws.
- La longueur des câbles exposés est primordiale lorsque l'on entreprend de les dénuder. La longueur idéale est de 5 mm (3/16 inches). S'ils sont un peu plus longs, les câbles exposés pourraient se toucher et provoquer un court circuit. S'ils sont un peu plus courts, ils pourraient sortir, même s'ils sont attachés par les vis captives.

To verify the polarity before connection, plug in the power supply with no load and check the output with a voltmeter.

WARNING: The two power cord wires must be kept separate while the power supply is plugged in. Remove power before wiring.

AVERTISSEMENT : Les deux cordons d'alimentation doivent être tenus à l'écart l'un de l'autre quand l'alimentation est branchée. Couper l'alimentation avant de faire l'installation électrique.

Use the supplied tie-wrap to strap the power cord to the extended tail of the connector.

NOTES:

- Your P/2 DA2xi may have shipped with a blue captive screw connector. This blue connector can be plugged into either a blue or an orange power receptacle.
- The ideal length of exposed (stripped) copper wire for the blue connector is 0.2 inch (5 mm).
- The blue connector does not have the extended tail or the included tie-wrap.
- Do not tin the power supply leads before installing in the direct insertion connector. Tinned wires are not as secure in the connectors and could be pulled out.

Operation

After the distribution amplifier and its connected devices are powered up, the system is fully operational. If any problems are encountered, verify that the cables are routed and connected properly.

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Extron USA - West +1.714.491.1500 +1.714.491.1517 FAX	Extron USA - East +1.919.850.1000 +1.919.850.1001 FAX	+31.33.453.4040 +31.33.453.4050 FAX						