

Specifications, cont'd

Return loss	
P/2 DA2 Plus	-38.3dB @ 5 MHz
P/2 DA4/DA6 Plus	-45dB @ 5 MHz
Video output	
Number/signal type	
P/2 DA2 Plus	2 VGA-UXGA RGBHV, RGBS, RGSB, RsGsBs
P/2 DA4 Plus	4 VGA-UXGA RGBHV, RGBS, RGSB, RsGsBs
P/2 DA6 Plus	6 VGA-UXGA RGBHV, RGBS, RGSB, RsGsBs
Connectors	2, 4, or 6 15-pin HD female (depending on the model)
Nominal level	0.7V p-p (excluding sync)
Minimum/maximum levels	
P/2 DA2 Plus	0.4V to 1.4V p-p
P/2 DA4/DA6 Plus	0.3V to 1.5V p-p
Impedance	75 ohms
Return loss	
P/2 DA2 Plus	-41dB @ 5 MHz
P/2 DA4/DA6 Plus	-45dB @ 5 MHz
DC offset	±5mV maximum with input at 0 offset

Sync

Input type	RGBHV, RGBS, RGSB, RsGsBs
Output type	RGBHV, RGBS, RGSB, RsGsBs
Input level	3.0V to 5.0V p-p
Output level	TTL 5V p-p
Input impedance	510 ohms
Output impedance	75 ohms
Max. propagation delay	60 ns
Max. rise/fall time	
P/2 DA2 Plus	4 ns
P/2 DA4/DA6 Plus	2 ns
Polarity	Positive or negative

General

Power	
P/2 DA2 Plus	100VAC to 240VAC, 50/60 Hz, 4.5 watts, external, auto-switchable; to 9VDC, 1 A power supply.
P/2 DA4/DA6 Plus	100VAC to 240VAC, 50/60 Hz, 12 watts, internal, auto-switchable

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Specifications, cont'd

Temperature/humidity	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, non-condensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, non-condensing
Rack mount	No P/2 DA2 Plus Yes, with optional 1U rack shelf, part #60-190-01
Enclosure type	Plastic Metal
Enclosure dimensions	1.4" H x 5.0" W x 3.3" D 3.6 cm H x 12.7 cm W x 8.4 cm D 1.6" H x 8.75" W x 9.4" D (1U high, half rack width) 4.1 cm H x 22.2 cm W x 23.9 cm D (Depth excludes connectors)
Product weight	1.6 lbs (0.7 kg) 2.2 lbs (1.0 kg)
Shipping weight	3 lbs (1.4 kg) 4 lbs (1.8 kg) 5 lbs (2.3 kg)
Vibration	ISTA/NSTA 1A in carton (International Safe Transit Association)
Listings	UL, CUL
Compliances	CE
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE Specifications are subject to change without notice.



Extron® Electronics
INTERFACING, SWITCHING AND DISTRIBUTION

User's Guide

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**P/2 DA2 Plus
P/2 DA4 Plus
P/2 DA6 Plus**
Distribution Amplifiers

68-362-01 Rev. C
Printed in the USA
08 02



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Installation and Operation

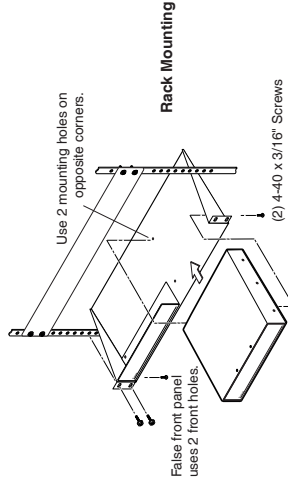
Description

The P/2 DA2 Plus, P/2 DA4 Plus, and P/2 DA6 Plus are distribution amplifiers that accept video input from a VGA-UXGA compatible PC and distribute that signal to separately buffered outputs. Each output can be extended with Extron VGA-HR cables in 6', 15', 25', 50', 75', 100', 150', 200' and 250' lengths.

Examples of typical installations are shown in the diagrams on the following pages.

Installation

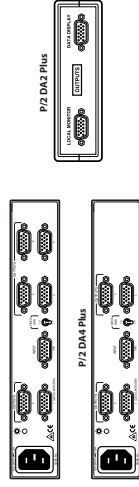
1. Power off the computer and its local monitor.
2. For optional rack mounting (four and six output only), mount the unit on one side of a 19" TU Universal Rack Shelf (Extron part # 60-190-01). See the illustration below.
 - a. If feet were previously installed on the bottom of the case, remove them.
 - b. Mount the unit on the rack shelf, as shown below, using two 4-40 x 3/16 screws in opposite (diagonal) corners to secure the case to the shelf.



3. Connect the computer's VGA output to the input of the distribution amplifier (P/2 DA2 Plus cable or the center connector of the P/2 DA4 Plus or P/2 DA6 Plus). See rear panel diagrams on next page.
4. Connect the computer's monitor to the "Local Monitor" output of the distribution amplifier.

Installation and Operation, cont'd

5. Connect an LCD panel, a VGA-UXGA monitor, or a projector to the other output(s).
6. Connect power to the distribution amplifier.
7. Power on the local monitor, the computer, and display device(s).



Indicators and Controls

Power LED: Located on the front and rear panels of the P/2 DA4 Plus and P/2 DA6 Plus only. When illuminated, it indicates that the distribution amplifier is receiving power.

Video Gain toggle switch: (P/2 DA4 Plus and P/2 DA6 Plus only) The Video Gain switch is normally set to 0.7V (down). For installations with long output cable runs, the 1.0V (up) position will give a brighter picture.

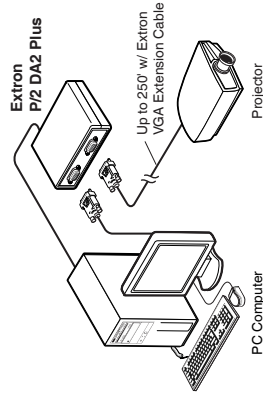
Operation

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. For units with the Video Gain toggle switch, verify that the switch position is correct (refer to the previous **Indicators and Controls** section).

Optional VGA Cables and Adapters

- 6', 15', 25', 50', 75', 100', 150', 200' and 250' VGA-HR cable
- SY-VGA — VGA to 5 BNCs
- T-NC-34 VGA — to NEC monitors
- C-VGA-VCP — VGA to Mitsubishi printers

Specifications



Specifications

Video

Gain

P/2 DA2 Plus	Unity
P/2 DA4/DA6 Plus	0.7V or 1.0V, switchable
P/2 DA2 Plus	270 MHz (-3dB), fully loaded
P/2 DA4/DA6 Plus	300 MHz (-3dB), fully loaded

Video input

Number/signal type	1 VGA-UXGA RGBHV, RGBS, RCsB, RSsBs Connectors
P/2 DA2 Plus	1 15-pin HD male cable (built-in) are available
P/2 DA4/DA6 Plus	1 15-pin HD female (optional Mac/VGA adapters are available)

Nominal level 0.7V p-p (excluding sync)
 Minimum/maximum levels Analog

P/2 DA2 Plus	0.4V to 1.4V p-p with no offset at unity gain
P/2 DA4/DA6 Plus	0.3V to 1.5V p-p with no offset at unity gain
Impedance	75 ohms
Horizontal frequency	15 kHz to 135 kHz
Vertical frequency	30 Hz to 150 Hz
P/2 DA4/DA6 Plus	30 Hz to 170 Hz