www.vac-brick.com

ProSeries Products

1X4 Balanced Stereo Audio Distribution Amplifiers

Part Numbers	Brief Description
16-131-604 Rev A	Unity Gain, Terminal Block Connectors, 12V AC w/P5 Power Connector
16-132-604 Rev A	Unity Gain, Individual Drivers, Terminal Block Connectors, 12V AC w/P5 Power Connector
16-133-604 Rev A	Global Variable Gain, Terminal Block Connectors, 12V AC w/P5 Power Connector
16-134-604 Rev A	Individual Variable Gain, Terminal Block Connectors, 12V AC w/P5 Power Connector
16-531-604 Rev A	Unity Gain, Terminal Block Connectors, FlexPwr
16-532-604 Rev A	Unity Gain, Individual Drivers, Terminal Block Connectors, FlexPwr
16-533-604 Rev A	Global Variable Gain, Terminal Block Connectors, FlexPwr
16-534-604 Rev A	Individual Variable Gain, Terminal Block Connectors, FlexPwr

Includes:

1 (one) 55560 - 12V AC power supply **-OR-** 1 (one) 55564 - FlexPwr Supply
10 (ten) 78366 - 3-pin Terminal Block Plugs

All VAC products are assembled in Boulder, CO, USA

Video Accessory Corporation

2450 Central Avenue Suite G
Boulder, Colorado 80301

(800) 821-0426 (303) 443-1319 fax (303) 440-8878

Power:

12V AC - The 12V AC Brick™ is designed to function properly with an input power of 11-13V AC. The Brick will not operate from a DC voltage. A 2.1mm P5 style connector is used for the power input. If the input voltage is a grounded system, the center pin of the P5 is the power connection and the barrel is the ground side. All ProSeries units are shipped with a 12V AC, 600mA floating power supply that eliminates any ground loops through the power supply connection.

FlewPwr - The FlexPwr Brick™ is designed to function properly with an input power of 10-28V AC (ungrounded) or 12-32V DC (grounded or ungrounded). A 2-pin header (Phoenix Contact #1881448) style connector is used for the power input. The 12V AC, 600mA wall transformer provided with the product provides a floating power source that has been designed to eliminate any ground loops through the power supply connection.

Input:

The input for this product consists two Terminal Block connectors (one per channel). An audio signal with excessive DC component (or offset) will cause the VAC Brick to malfunction. The audio signal needs to be within -4V to +4V.

Outputs:

The VAC Brick has eight audio outputs (four per channel) consisting of Terminal Block connectors. Unused outputs do not need to be terminated for proper operation of the Brick.

Gain:

Unity Gain, Global Driver - The signal amplitude at each output is identical to the input signal, with a single driver.

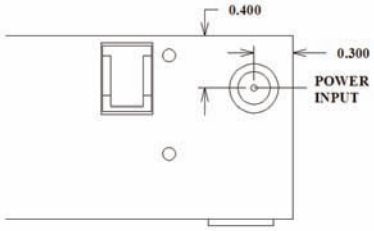
Unity Gain, Individual Drivers - The signal amplitude at each output is identical to the input signal, with individual drivers.

Global Variable Gain - The signal amplitude at each output is variable, and all output signal amplitudes are adjusted together with one control (for a total of 4 outputs per gain control).

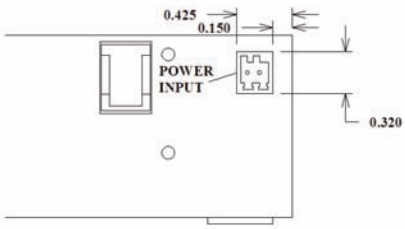
Individual Variable Gain - The signal amplitude at each output is variable, and is independent of all other outputs. A separate gain control is provided for each output.

Specifications:

Frequency Response:	DC - 100kHz (-3.0 dB) fully loaded over full voltage range (1Vpp input signal, 0V DC offset)
Input Signal Level:	0 - 8.0Vpp (within -4V to +4V range from ground)
Input Impedance:	>5K Ohms
Input Coupling:	DC
Input Connector(s):	3-pin Terminal Block (total of 2)
Output Connectors:	3-pin Terminal Block (total of 8)
Configuration:	Standard input, four active outputs
Gain:	***Unity, Global Driver*** - Unity ***Unity, Individual Drivers*** - Unity ***Global Variable*** - 0.5X - 4.0X ***Individual*** - 0.5X - 4.0X
Output Series Impedance:	50 Ohms (per side)
Package:	Solid epoxy block 2.2” x 4.4” x 1.4” (not including connectors)
Mounting:	Two threaded 6-32 inserts
Power:	***12V AC*** - 11-13V AC (2.1mm P5 connector) <150mA input current ***FlexPwr*** - 10-28V AC (ungrounded) or 12-32V DC (grounded or ungrounded) 2-pin header (Mating connector Phoenix Contact #1881325) <150mA input current @ 12V DC <175mA input current @ 10V AC
Operating Temperature:	***12V AC*** -40C to + 50C ***FlexPwr*** -40C to + 80C
Operating Humidity:	0% - 95%
Shipping Weight:	3 lbs

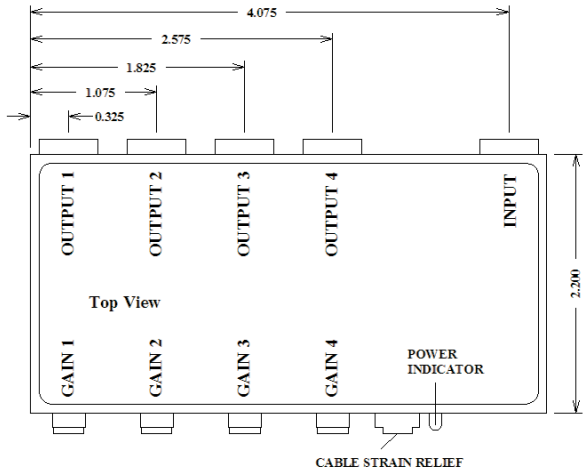


12V AC with 2.1mm P5 Connector

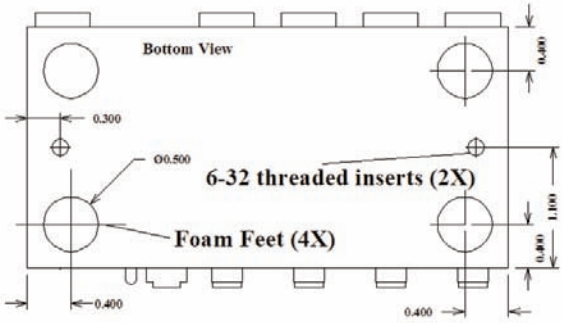


FlexPwr with Terminal Block Connector

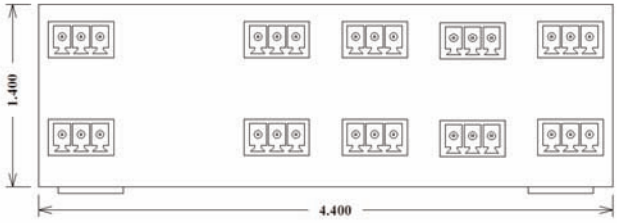
Mechanical Drawing of Bricks



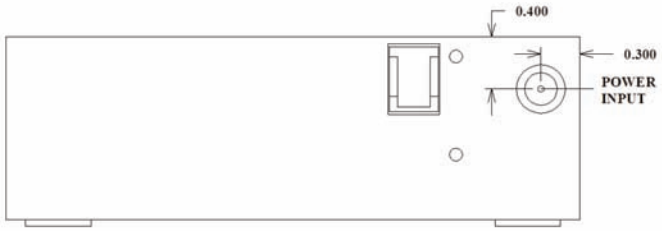
top view



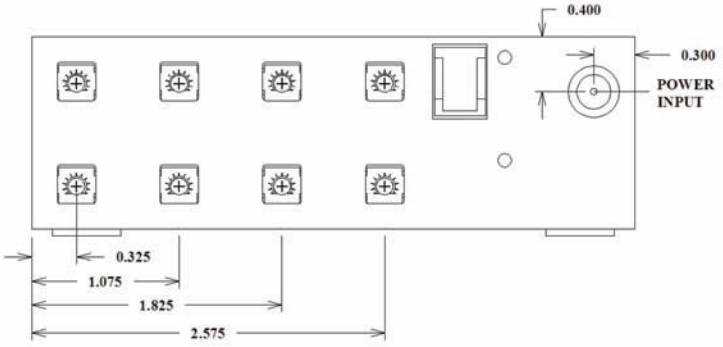
bottom view / mounting inserts



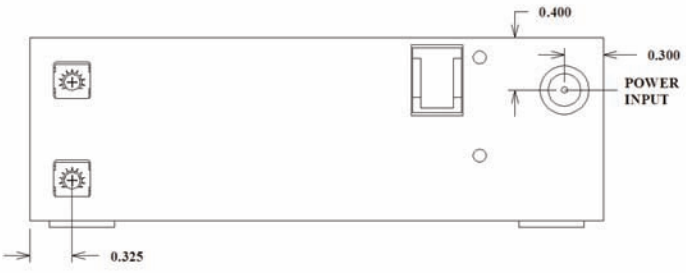
input / output connectors - Terminal Block



Unity Gain, Unity Gain-Individual Drivers



Individual Gain



Global Variable Gain