VAC www.vac-brick.com

ProSeries Products

1X8 Balanced Mono Audio Distribution Amplifiers, Loop-thru Input

Part Numbers	Brief Description
16-161-308 Rev A	Unity Gain, Terminal Block Connectors, 12V AC w/P5 Power Connector
16-162-308 Rev A	Unity Gain, Individual Drivers, Terminal Block Connectors, 12V AC w/P5 Power Connector
16-163-308 Rev A	Global Variable Gain, Terminal Block Connectors, 12V AC w/P5 Power Connector
16-164-308 Rev A	Individual Variable Gain, Terminal Block Connectors, 12V AC w/P5 Power Connector
16-561-308 Rev A	Unity Gain, Terminal Block Connectors, FlexPwr
16-562-308 Rev A	Unity Gain, Individual Drivers, Terminal Block Connectors, FlexPwr
16-563-308 Rev A	Global Variable Gain, Terminal Block Connectors, FlexPwr
16-564-308 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 of a loop-thru input with two Terminal Block connectors.   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 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.
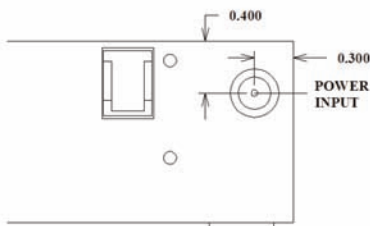
      Unity Gain, Individual Drivers - The signal amplitude at each output is identical to the input signal, with individual drivers.

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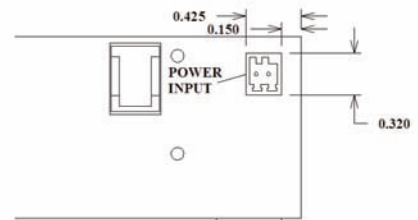
      Individual Variable Gain - The signal amplitude at each output is variable, and is independent of all other outputs. A separate gain control is provided for each output.

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: Loop-thru input, eight 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%
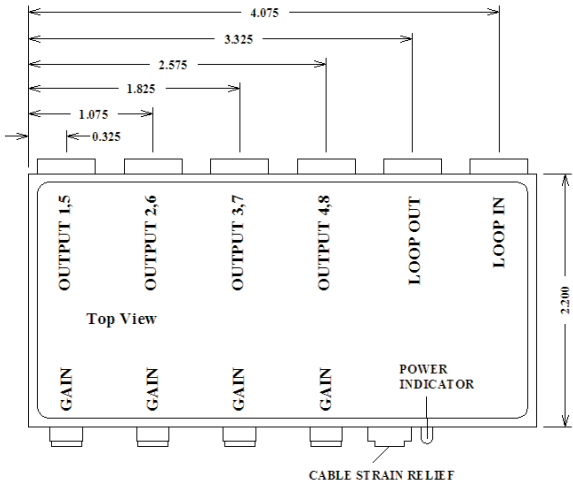
Shipping Weight: 3 lbs
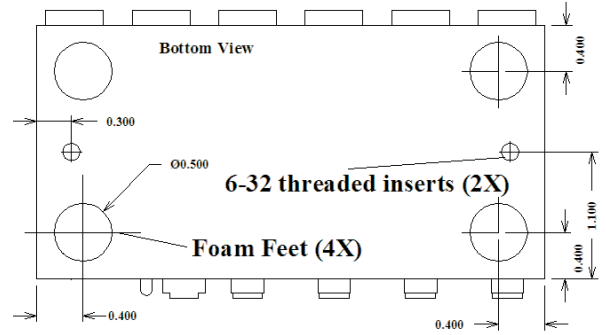

12V AC with 2.1mm P5 Connector

FlexPwr with Terminal Block Connector
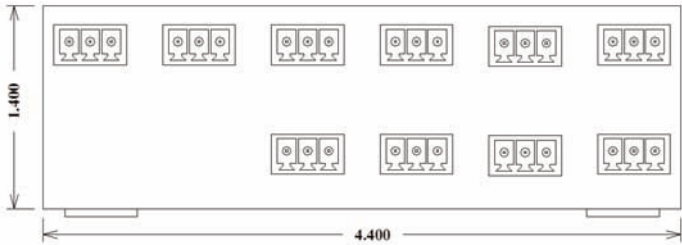
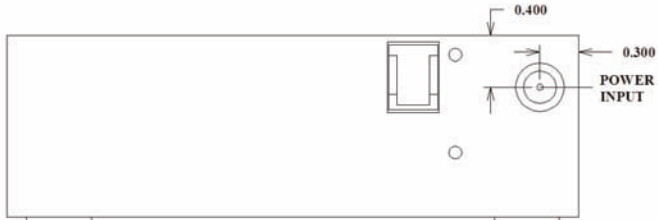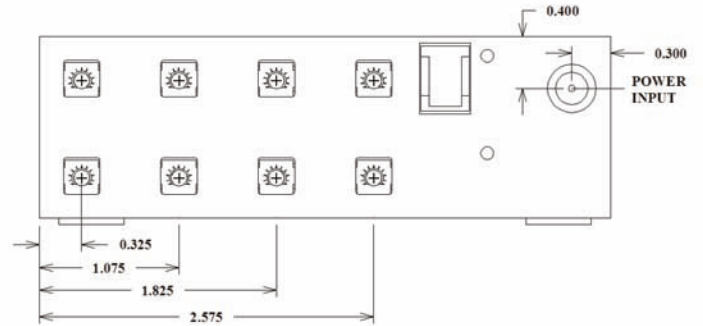# Mechanical Drawing of Bricks

top view
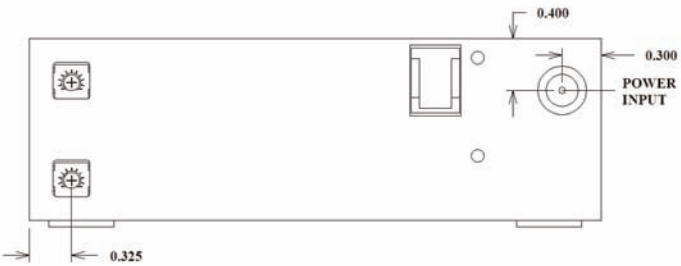

bottom view / mounting inserts

input / output connectors - Terminal Block

Unity Global Gain, Unity Individual Gain

Individual Gain

Global Variable Gain