



***Hum Reducing Power Supply System Regarding
Distribution Amplifiers, Ground Loops, and Interference***

Most of VAC's distribution amplifiers take advantage of the properties of individual floating (ungrounded) power sources (AC adapters) to provide some inherent ground loop and interference protection.

By using a floating power source, the VAC distribution amplifier does not provide a direct path to the power line ground and so does not introduce a ground loop, as is the case with traditional distribution amplifiers. The use of individual floating power sources also precludes the possibility of loop currents between distribution amplifiers causing power supply interference.

An additional advantage is that the use of individual floating power sources eliminates power supply paths that allow different signals to interfere with each other through cross talk between distribution amplifiers.

For the reasons noted above we highly recommend that the AC adapters included with most of our distribution amplifiers be used to provide power individually to those distribution amplifiers.

Two Year Limited Warranty

All Video Accessory Corporation (VAC) products have a full two year limited warranty (excluding power LED failure where the product continues to function). The warranty shall be void if any alteration or repair of a VAC product is attempted by anyone not authorized by VAC.

This warranty is expressly in lieu of all other warranties express or implied, including warranties of merchantability and fitness for use, and of all other obligations or liabilities on the part of VAC, and it neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of this product.

This warranty shall not apply to the product or any part thereof subjected to accident, negligence, alteration, abuse, or misuse. No warranty whatsoever is made with respect to accessories or parts supplied by anyone other than VAC, and this warranty shall extend only to the original purchaser of this product.

The warranty provided in this article is exclusive and in lieu of, and buyer hereby waives, all other remedies, express or implied, arising by law or otherwise, including consequential damages, whether or not occasioned by negligence of VAC.

This warranty shall not be extended, altered or varied except by written instrument signed by VAC and buyer, and shall only apply within the boundaries of the continental United States. Liability of VAC is limited to repair or replacement at the option of VAC.

Warranty work is to be sent to VAC. Freight charges will be the responsibility of the purchaser.



www.vac-brick.com

Part No: 14-533-604 Rev A

**1 X 4 Y/C Loop-thru Video DA, Global Variable Gain,
DIN Connectors, FlexPwr**

ProSeries Products

All VAC products are assembled in Longmont, CO, USA

Video Accessory Corporation

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Part No: 14-533-604 Rev A

1 X 4 Loop-thru, Global Variable Gain,
DIN Connectors, Y/C Video DA
FlexPwr

Purpose:

The VAC model 14-533-604 Y/C Video Distribution Amplifier provides four video outputs from a loop-thru input for Y/C video signals. The 12VAC wall transformer provides isolated power to the Brick to control ground loops.

Power:

The 14-533-604 is designed to function properly with an input power of 10-28V AC or 12-32V DC. A non-polarized 2-pin header (Phoenix Contact #1881448) style connector is used for the power input. The 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 4-pin DIN connectors. The loop-thru input should be terminated when not in use. A video signal with excessive DC component (or offset) such as those generated by many computer video boards will cause the 14-533-604 to malfunction. The 1 Vpp video signal needs to be within -1V to +1V. Ideally, the video signal's blanking level should be clamped to 0 volts, although an AC coupled signal is also acceptable.

Outputs:

The 14-533-604 has four video outputs consisting of 4-pin DIN connectors. Each output has a series impedance of 75 Ohms. Unused outputs do not need to be terminated for proper operation of the Brick.

Specifications:

Valid for both the Y and C channels

Frequency Response:	DC - 200 MHz @ -3dB, fully loaded over full voltage range (1Vpp input signal, 0V DC offset)
Input Signal Level:	0.5 - 2.0 Vpp (within -1 volt to +1 volt range from ground)
Input Impedance:	75 Ohms
Input Coupling:	DC
Input Connector(s):	4-pin DIN (total of 2)
Output Connectors:	4-pin DIN (total of 4)
Configuration:	Loop-thru input, 4 active outputs
Gain:	0.75X to 1.75X
Output Series Impedance:	75 Ohms
Package:	Solid epoxy block 2.2" x 4.4" x 0.65" (not including connectors)
Mounting:	Two threaded 6-32 inserts
Power:	Internal FlexPwr switcher supply(s) (Current dependant on input voltage) 12-32V DC or 10-28V AC < 100mA input current
Power connector:	2-pin header (Phoenix Contact #1881448) Mating connector (Phoenix Contact #1881325)
Operating Temperature:	- 40C to + 80C
Operating Humidity:	0% - 95%
Shipping Weight:	2 lbs