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Legacy Series

**MVB/VDA-4 (100-0-016) Rev C
1X4 Video Distribution Amplifier**



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

Two Year Limited Warranty

All Video Accessory Corporation (VAC) products have a full two year limited warranty. Exclusions to the warranty include but are not limited to damage to external components, power LED failure where the product continues to function, and electrical damage due to lightning. 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. 70-1861-B

Purpose:

The VAC Model MVB/VDA-4 (100-0-016) Rev B provides four unity gain video outputs from one video input. It provides exceptional operational flexibility due to its small, compact size, portability, and its ability to operate for up to 48 hours from a standard 9V lithium battery.

Power:

The VAC Model MVB/VDA-4 (100-0-016) Rev B is intended to be operated from an attached 9V battery (not included), but may also be operated from an external ungrounded (floating) source of 6-12V DC.

VAC recommends that the MVB/VDA-4 (100-0-016) Rev B be operated from an independent ungrounded power source, such as a 9V battery attached only to the unit. This will provide isolation from power line ground, thus eliminating one possible path for an interference including ground loops, as well as power supply crosstalk between units. While it is possible to power more than one unit from the same source, VAC strongly recommends against doing so for two reasons: **First**, use of a common power supply introduces a path for crosstalk between units; and **Second**, the MVB/VDA-4 (100-0-016) Rev B internally sets the DC levels needed for proper operation and this level will vary slightly from unit to unit thereby creating loop currents if a common power supply is used.

Input:

The input for this product is a single 75 Ohm internally terminated BNC connector with grounded shield. The MVB/VDA-4 (100-0-016) Rev B is designed to accept a 1Vpp video signal. A video signal with excessive DC component will cause the unit to malfunction. The 1Vpp video signal needs to be within -1V to +1V DC. Ideally the signal's blanking component should always be "clamped" to 0 volts, although an AC coupled signal is also acceptable.

Outputs:

The outputs for this product consists of four standard BNC connectors with grounded shields. Each output is unity gain (0 dB) with no adjustment and is designed to drive a standard 75 Ohm video load. Outputs do not need to be terminated, as they shorten battery life.

Specifications:

Frequency Response:	DC - 100 MHz @ -3dB, fully loaded over full voltage range (1Vpp input signal, 0V DC offset)
Input Signal Level:	0.1 - 2.0Vpp (within -1V to +1V range from ground)
Input Impedance:	75 Ohms
Input Coupling:	DC
Input Connector(s):	75 Ohm BNC (total of 1)
Output Connectors:	75 Ohm BNC (total of 4)
Configuration:	Standard input, four active outputs
Output Series Impedance:	75 Ohms
Package:	2.6"H x 1.3"W x 2.12"L with 9V Battery (not included) (not including connectors)
Power:	6-12V DC (ungrounded) 6mA typical
Shipping Weight:	1 lbs