



ASIA

AVE (Thailand) Co., Ltd.

217/4 Crystal Garden, Soi 4 (Nanatai)
Sukhumvit Road, Klongtoey, Klongtoey
Bangkok 10110 Thailand
Tel: 662-656-8231
Fax: 662-656-9554
Email: ave@avethailand.com
<http://www.ave.co.th> (Thai)
<http://www.avethailand.com> (English)

NORTH AMERICA

AVE Multiview USA

2000 West Governors Circle
Suite E, Houston, Texas 77092
Tel: 1-281-443-2300
Fax: 1-281-443-8915
Email: sales@aveusa.com
<http://www.americanvideoequipment.com>

WESTERN EUROPE

AVE Multiview UK

Granyte House, Delamare Road
Cheshunt, Hertfordshire EN8 9SP
Tel: 440-870-770-9323
Fax: 440-870-770-9363
Email: enquiries@ave-uk.com
<http://www.multiview.net>

VDA401





4-Channel Video Distribution Amplifier

Operation Manual

June 2006





 **CAUTION!**
RISK OF ELECTRICAL SHOCK!
DO NOT OPEN! 

TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE THE COVER. DO NOT EXPOSE THE EQUIPMENT TO RAIN OR MOISTURE. NO USER SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING!

THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL MAY CAUSE INTERFERENCE TO RADIO COMMUNICATIONS. IT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A COMPUTING DEVICE PURSUANT TO SUBPART J OF PART 15 OF FCC RULES, WHICH ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST SUCH INTERFERENCE WHEN OPERATED IN A COMMERCIAL ENVIROMENT. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE INTERFERENCE IN WHICH CASE THE USER AT HIS/HER OWN EXPENSE WILL BE REQUIRED TO TAKE WHATEVER MEASURES MAY BE REQUIRED TO CORRECT THE INTERFERENCE.

The lightning flash with the arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

LIMITED WARRANTY

(Terms and Conditions)

For **2 years** from the date of shipment, Seller warrants to Buyer that the Product is free from defects in material or workmanship **under normal use and service**. Equipment manufactured by other than Seller but furnished by Seller carries the same warranty to Buyer as Seller receives from the other manufacturer, notwithstanding any provision to the contrary. If Buyer has specified a particular manufacturer’s product which is not the brand standardly supplied by Seller, Buyer shall look only to the other manufacturer’s warranty and Seller shall not warrant such item.

EXCLUSIONS. Seller’s warranty does not cover the following:

- (1) in-transit damage claims, improper handling by carrier or post office (Note: only the consignee of the shipment can file a claim with the common carrier)
- (2) damages caused by incorrect use, modification, carelessness, improper storage, hostile operating conditions, or unauthorized service, installation or repairs without proper training from the Seller
- (3) damages caused by fire, flood, lightning, collision, acts of God or other events beyond the control of Seller
- (4) products or parts thereof that have had serial numbers removed, altered or defaced
- (5) products returned without an RMA number and sales or delivery receipt showing the date of original purchase
- (7) use of components that do not meet Seller’s specifications
- (9) external parts such as cabinets or keypads
- (10) periodic maintenance and adjustments resulting from normal use

WARRANTIES EXCLUDED, SELLER EXPRESSLY DISCLAIMS AND EXCLUDES ANY EXPRESS OR IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEEDS OR IS INCONSISTENT WITH THE WARRANTY HEREIN EXPRESSLY SET FORTH.

NON-WARRANTY CLAIMS. In the event Buyer makes a warranty claim and Seller’s warranty does not apply, Buyer shall reimburse Seller for all reasonable expenses incurred by Seller in diagnosing the installation/repair problem.

SPECIFICATIONS

Video Inputs	0.5-2V P-P 75 ohm terminated
Video Output	0-2V P-P 75 ohms terminated
Power Supply	9-12VDC @ 240mA
	included UL/CSA wall transformer 9-12VDC @ 300mA
Band Width.....	10Hz-10MHz +/- 1dB
S/N	60dB
Output Impedance.....	75 Ohms
Power Consumption	3 Watts Max
Video Level	Screw Driver Single Turn Potentiometer

Connectors

Video In/Out.....	BNC Die Cast
Power Input.....	DC Coax 2.1 mm x 5.5 mm

Mechanical

Case	Beige Metal 4.5" W x 5.0" L x 1.38" H
	(113 mm W x 125 mm L x 35 mm H)
Weight.....	0.350 kg (1.00 lbs)
Box Size.....	8.0" W x 7.0" L x 2.5" H
	(240 mm W x 178 mm L x 64 mm H)

CONTENTS

Precautions.....	2
Features.....	4
More Information.....	4
Introduction.....	4
Connections.....	5
Adjustable Gain.....	5
Specifications	6
Warranty	7

FEATURES

- **One Video Input and Four Video Outputs**
- **Adjustable Gain on Front Panel**
- **Video Output Short Circuit Protection**
- **Multivoltage Power Supply 9-12DVC or 24Vac**
- **Low Power Design**
- **75 Ohm Video Outputs and Drivers**
- **Outputs are AC Coupled**
- **Compact Size**

MORE INFORMATION

To obtain the most current information on the VDA series or to obtain a copy of this manual, go to the AVE website and follow the links to Technical Support.

www.avethailand.com

INTRODUCTION

The VDA401 is a high quality 1-input looping to 4-output video/audio distribution amplifier. All outputs are short circuit protected and each can drive a 75 ohm terminated load.

A level adjustment for the video/audio outputs is accessible on the front panel. This adjustment gives full range amplification or attenuation depending on the system requirements. All outputs are adjusted simultaneously by this one control.

All video/audio outputs are AC-coupled. Each video/audio output is driven by an individual 75 ohm video driver. All specifications are measured at 75 ohm termination

The compact metal enclosure maintains top performance in all kinds of mounting situations. A small UL/CSA-rated wall transformer supplies 9-12VDC to the unit or 24Vac input.

CONNECTIONS

The video input and output are located on the rear of the unit. The video input connects to the video source via the right BNC connector. The video output connects to a display, recording device, switcher, or other equipment via the other four BNC connectors.



Figure 1: VDA401 Back Panel

ADJUSTABLE GAIN

The single turn potentiometer on the front panel is used to control amplification or attenuates the overall gain or video level of the signal. This can recover attenuated signals when video output is too high.

The video level is about 0-2V P-P adjustable using the potentiometer. The video standard is RS-170A / NTSC or CCIR / PAL video format.

Use a screw driver and turn the potentiometer clockwise to increase the video level and counterclockwise to reduce the video level output.



Figure 2: VDA401 Front Panel