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Specialists in Practical Precision Engineering™

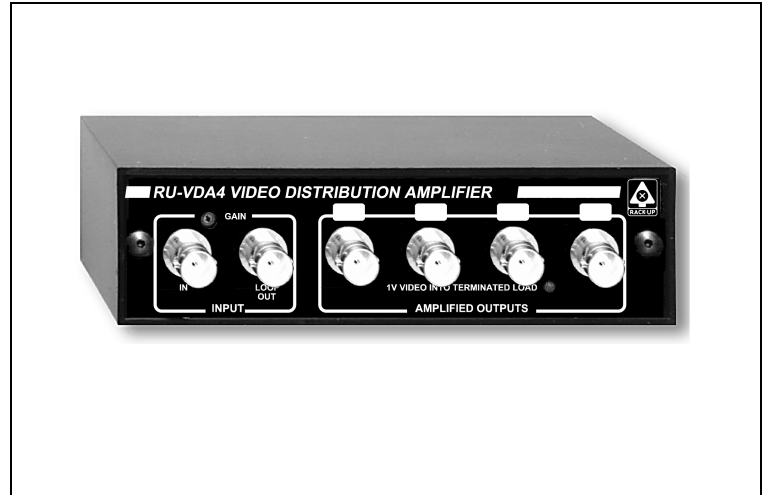


RACK-UP™ **SERIES** **Model RU-VDA4** **Video Distribution Amplifier**

ANYWHERE YOU NEED...

- Video Distribution with 4 Outputs
- Adjustable Gain Amplification
- Input 'Loop-Through' Jack
- Video 1-Volt Video Signal Indicator
- 10 MHz Bandwidth
- 1/3-Rack, High-Density Rack-Mounting

You Need RU-VDA4!



The RU-VDA4 is part of the group of RACK-UP products from Radio Design Labs. RACK-UPS feature the advanced circuitry for which RDL products are known, combined with accessible user-friendly controls and displays. The ultra compact design permits high-density installations, with THREE products mounted in a single rack unit! Single RACK-UPS can be mounted right where they are needed using the adhesive method popularized by RDL's STICK-ON™ series of products. Optional mounting brackets permit mounting a RACK-UP module above, below, or in front of any flat surface!

APPLICATION: The RU-VDA4 is the ideal choice in most applications where video signals need to be distributed. Video inputs and outputs are made on the front panel BNC jacks. Power connections are made using full-size barrier block terminals on the rear panel.

The RU-VDA4 has two jacks in the bridging input stage. One jack is for the input signal; the other is a 'Loop Through' output of the source signal. If 75 Ohm termination of the input signal is required, the termination (provided) is plugged onto the 'Loop Out' jack.

Gain is user adjustable from the front panel. The gain potentiometer allows adjustment from -1dB to +7dB.

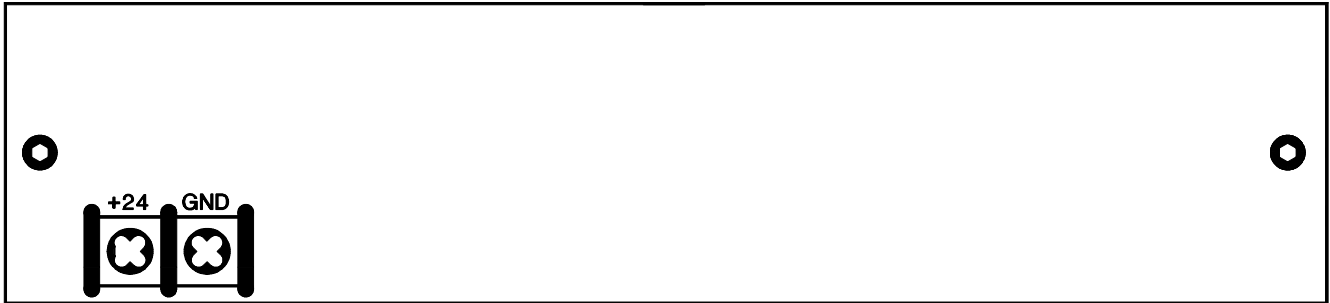
Four source-terminated outputs are provided through the BNC output jacks. Unused outputs need not be terminated. A convenient (write-on) label area is provided to identify the feed from each output jack.

A unique feature of the RU-VDA4 is the '1V Video' Signal LED indicator. While not intended as precision test equipment, this indicator can prove very helpful in field and remote location setup. The indicator is off when the video signal drops below 1V p-p, and comes on when the signal just achieves 1V.

Wherever a video distribution amplifier is needed to provide wideband video feeds, gain adjustment, reliability, compactness and unsurpassed versatility, the RU-VDA4 is the choice. Use the RU-RA3 rack-mount adapter to mount multiple RU-VDA4s, or to combine related products (such as audio mixing, audio distribution, or audio metering) into a single rack unit!

RU-VDA4

Rear Panel View



POWER CONNECTION: Connect a single-ended 24vdc power source to the +24Vdc terminal. Connect the ground return from that supply to the adjacent ground terminal. Power supply and circuit grounds are common.

FRONT PANEL CONNECTIONS


INPUT: Connect video input to the 'IN' jack. If the input signal is to continue on to another piece of equipment which will terminate the input, connect a cable to the **LOOP OUT** jack; connect the other end of this cable to the terminating equipment. If no loop output is used, connect a 75 Ohm termination to the **LOOP OUT** jack.

OUTPUT: Connect the coaxial cable to the desired output(s) on the RU-VDA4, and label them as desired.

GAIN ADJUSTMENT: Adjust the GAIN potentiometer for 1V p-p video level on your instrumentation. In the absence of test equipment, the '1V VIDEO' L.E.D. may be used. First turn the gain counter-clockwise. Then advance the **GAIN** clockwise until the '1V VIDEO' L.E.D. just illuminates.

TYPICAL PERFORMANCE

Input Impedance:	1 k Ω Bridging 75 Ohm Line	
Gain:	Adjustable -1 dB to +7 dB	
Load Impedance:	75 Ohms	
Outputs:	1 'Loop Out' from Input Signal; 4 Amplified Outputs	
Output Level:	1V p-p into 75 Ohm	
Frequency Response:	10 Hz - 10 MHz (+/- 0.2 dB)	
Noise:	< -70 dB below 1V p-p	
Output Isolation:	> 40 dB	
Differential Gain:	0.1%	
Differential Phase:	0.1 degree (measured at 10% and 90% APL)	
Connector Type:	BNC	
Power Requirement:	24 Vdc @ 60mA (36 Vdc max), single-ended, ground-referenced	
Mounting:	Rack-mount using optional RU-RA3 triple rack mount (single rack unit), or RC-1U rack chassis; bottom mount using available adhesive strips; bottom or top mount to a flat surface using optional MB-2 mounting bracket set; front mount to a panel or backboard using MB-1 mounting bracket set.	
Optional Dimensions:	Height:	1.7" 4.3cm
	Length:	5.8" 15.0cm
	Depth:	2.0" 5.1cm (case only)
		2.5" 6.4cm (case including barrier block)
		3.0" 7.7cm (overall including block and jacks)

EMC:  Immunity and emission specifications published in the EMC Technical Bulletin for this product are incorporated herein.