RGB-HV-2

Ultra High Resolution
Video Distribution for
Mission Critical Applications



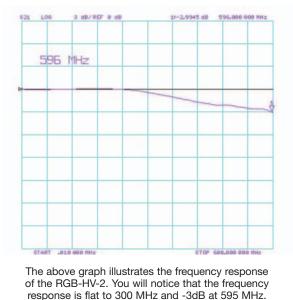


The RGB-HV-2 is an ultra high resolution, ultra high bandwidth 1x2 distribution amplifier for applications requiring the highest possible video quality. Each of the 2 output stages has independent cable equalization to compensate for variations in the cable's response.

To insure the best possible signal reproduction, the RGB-HV-2 has been designed to provide up to 595 MHz of bandwidth, ensuring compatibility with today's and tomorrow's most demanding signal requirements.

SOME NOTES ON BANDWIDTH

Typically, the bandwidth of a device is measured to its' -3dB point, but how you get there is equally important. Frequency response should be as flat as possible throughout the response curve. Some manufacturers will boost a signal through a particular frequency range as much as 6 to 12dB in order to extend the -3dB point. Excessive peaking in competitive products will cause aberrations in the picture such as noise, color blooming and bright banding at the edge of an object in the image. It can also overdrive the input stage of any downstream equipment causing image distortion.



You spend a significant amount of time generating the best possible image, don't trust that image to a long cable run. The RGBHV-2 will compensate for the cable's shortcomings and deliver your image to it's destination with the same color and clarity that you created it with. High bandwidth and flat frequency response just what you need.

FSR also manufacturers the CI-5 family of interfaces which accurately drive your video signals from a source to the rack or from the rack to a display device. Contact FSR or your local reseller for more details.

At FSR, we have what you need.

FEATURES:

- 595 MHz of bandwidth at -3dB
- +/-.5dB to 300 MHz
- (5) 75 Ohm BNC connectors for the input and each output
- Independent cable equalization control for each output
- Locking power supply connector
- Compatible with all RGB-HV and HD TV standards

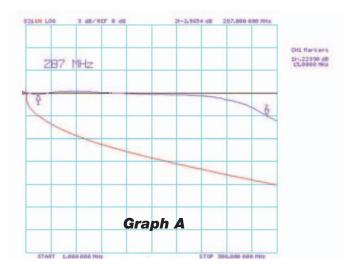
APPLICATIONS:

Boardrooms

Control Rooms

- Classrooms
- Houses of Worship
 - ip Staging and Rental
- FSR Inc.

244 Bergen Boulevard, West Paterson, NJ 07424 Phone: 973.785.4347 · Fax: 973.785.4207 Order Desk: 1-800-332-FSR1 Web: www.fsrinc.com · E-mail: sales@fsrinc.com LIT1046B



Graph A shows the response of a 150' section of WP8255 mini-coax with and without the RGB-HV-2, with a half level .350V signal.

Notice that the RGB-HV-2 maintains it's exceptionally flat response characteristics, even with a low level signal. The bandwidth is now extended to 287 MHz.

Notice that the cable drops to -3dB at 17 MHz stand alone but can pass up to 287 MHz when driven by the RGB-HV-2.

TECHNICAL SPECIFICATIONS

Video Input

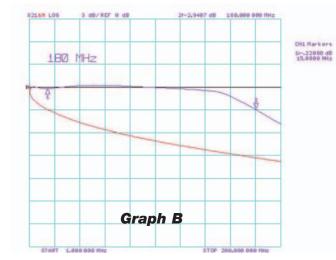
Number/Type:	1VGA/SVGA/XGA/SXGA/UXGA/RGBHV/RGBS/RGsB/RsGsBs/HDTV(YUV)/SV, or 3 CV
Connectors:	5 BNC Female
Impedance:	75 ohm
RGB Input Level:	1.0V p-p nominal +/-1.8V max
Sync Input Level:	0.5V-5V р-р
Sync Polarity:	Postive or Negative

Video Outputs

2VGA/SVGA/XGA/SXGA/UXGA/RGBHV/ RGBS/RGsB/RsGsBs/HDTV(YUV)/SV, or 3 CV		
5 BNC Female for each of 2 outputs		
75 ohm		
590 MHz typical @ -3dB		
300 MHz +/- 0.5dB		RGB-HV-2
(at max setting)		TYPICAL APPLICATIONS
Gain	Frequency	
0.6db	1 MHz	
2.3dB	10 MHz	Projector UP TO 150' CABLE RUN
5.3dB	50 MHz	
7.1dB	100 MHz	
10.3dB	200 MHz	
West Penn 8255 or equivalent		
Level - 4.5 volts into Hi	i-Z	
2.2 volts into 75 ohm		
Propagation Delay - 15 nS max		
Rise/Fall Time - 2 nS max		
Impedance - 75 ohm		POWER SUPPLY (Included)
9 VAC/DC 0.5 Amps, 120VAC		
Wall mount adapter inc	luded.	
Universal input adapt	ter available.	Projector Computer
	5 BNC Female for each 75 ohm 590 MHz typical @ -3d 300 MHz +/- 0.5dB (at max setting) Gain 0.6db 2.3dB 5.3dB 7.1dB 10.3dB West Penn 8255 or equ Level - 4.5 volts into Hi 2.2 volts into 75 Propagation Delay - 15 Rise/Fall Time - 2 nS m Impedance - 75 ohm 9 VAC/DC 0.5 Amps, 1 Wall mount adapter inc	5 BNC Female for each of 2 outputs 75 ohm 590 MHz typical @ -3dB 300 MHz +/- 0.5dB (at max setting) Gain Frequency 0.6db 1 MHz 2.3dB 10 MHz 5.3dB 50 MHz 7.1dB 100 MHz 10.3dB 200 MHz West Penn 8255 or equivalent Level - 4.5 volts into Hi-Z 2.2 volts into 75 ohm Propagation Delay - 15 nS max Rise/Fall Time - 2 nS max Impedance - 75 ohm



Specifications are subject to change without notice



Graph B shows the response curves of a 150' section of West Penn 8255 mini-coax cable with and without the RGB-HV-2 being driven by a full .7V signal.

Notice that the cable's bandwidth is only 17 MHz, but when used with the RGB-HV-2, the bandwidth is restored to 180 MHz.