RGB-HV-2

Ultra High Resolution Video Distribution for Mission Critical Applications



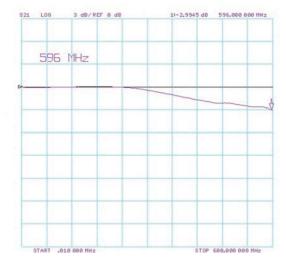


The RGB-HV-2 is an ultra high resolution, ultra high bandwidth 1x2 distribution amplifier for applications requiring the highest possible video quality. Each of the 2 output stages has independent cable equalization to compensate for variations in the cable's response.

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.



The above graph illustrates the frequency response of the RGB-HV-2. You will notice that the frequency response is flat to 300 MHz and -3dB at 595 MHz.

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
- Classrooms
- Houses of Worship
- Staging and Rental
- Control Rooms

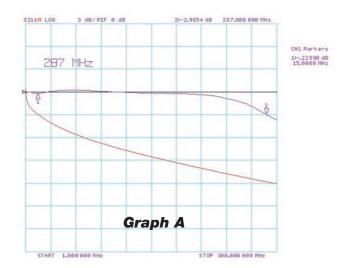
FSR Inc.

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Order Desk: 1-800-332-FSR1

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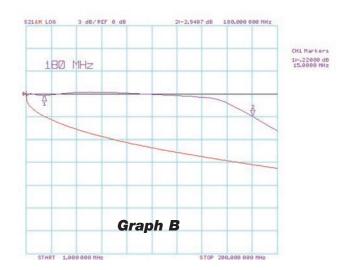
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Graph A shows the response of a 150' section of WP8255 mini-coax with and without the RGB-HV-2, with a half level .350V signal.

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.



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.

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 p-p

Sync Polarity: Postive or Negative

Video Outputs

Number: 2VGA/SVGA/XGA/SXGA/UXGA/RGBHV/ RGBS/RGsB/RsGsBs/HDTV(YUV)/SV, or 3 CV

Connectors: 5 BNC Female for each of 2 outputs

Impedance: 75 ohm

Bandwidth: 590 MHz typical @ -3dB Flatness: 300 MHz +/- 0.5dB Equalization: (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

Design Cable: West Penn 8255 or equivalent Sync Output: 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

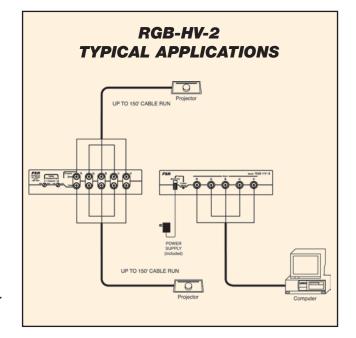
Power: 9 VAC/DC 0.5 Amps, 120VAC

Wall mount adapter included.

Universal input adapter available.

FSR Inc.

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Specifications are subject

to change without notice

