

# YUV-6 Distribution Amplifier

**Ultra High Resolution  
Ultra High Bandwidth**

**400 MHz  
of  
Bandwidth**

# FSR

**Video Products Group**

YUV-6



## FEATURES

The all new YUV-6 is a ultra high resolution, ultra high bandwidth, one input by six outputs, distribution amplifier suitable for applications requiring the highest possible video and audio quality. The first two outputs have independent cable equalization permitting long cable runs while maintaining excellent signal integrity for even the highest video resolutions.

Not only does this equipment have over 400 MHz of video bandwidth but it also has the unique FSR advanced synchronizing circuitry to ensure a rock stable video image at any resolution and signal level.

The first two outputs are independently equalized to maintain excellent signal integrity for all video resolutions. Cable runs of up to 175 feet are possible with 180 MHz of full amplitude bandwidth and +/- 0.75 dB flatness to 130 Mhz. A 0.2V P-P input signal yields 316 MHz of bandwidth and +/- 0.5 dB flatness to 250 MHz. This means that the signal you feed into the YUV-6 will arrive at the far end of the cable with an almost immeasurable amount of loss and no distortion due to peaking effects.

The digital audio input accepts DTS, AES/EBU as well as SP/DIF signals with sampling rates up to 96 kHz. Extremely low jitter and sub nano-second rise and fall times insure transparent audio signal distribution.

The YUV-6 accepts and distributes RGBS, RGsB, RsGsBs, component video, S-video, composite video, and digital audio on 75 Ohm female BNC connectors.

You spend a significant amount of time generating the best possible image, don't trust that image to long cable runs. The first two channels on this distribution amplifier permit independent equalization allowing you to deliver your image to two different locations with the same color and clarity that you created it with. High bandwidth, flat frequency response, and advanced sync processing - just what you need. In addition the YUV-6 have a universal built in power supply suitable for operation anywhere in the world.

Even using standard 75 ohm BNC connectors the YUV-6 are housed in a 1RU metal enclosure freeing up valuable rack space.

FSR also manufactures many other signal handling products that make any video installation quick and professional.

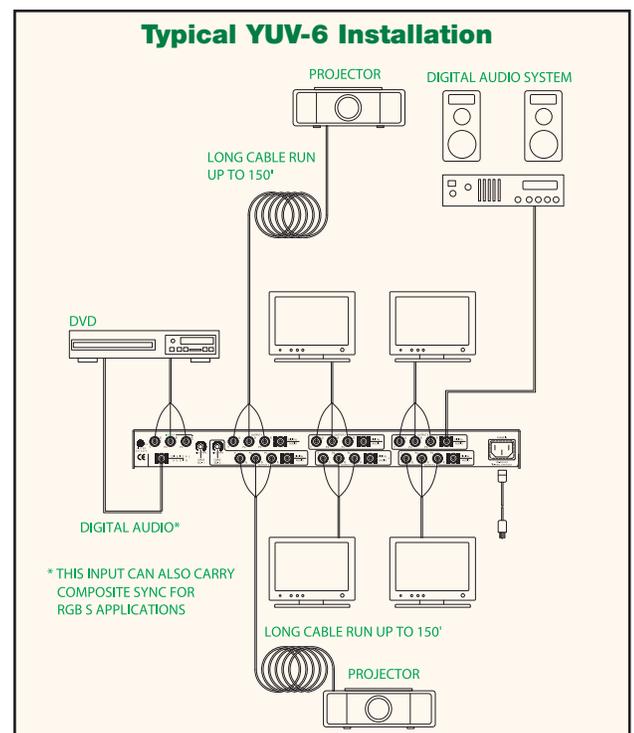
**At FSR, we have what you need.**

## KEY FEATURES

- Minimum 400 MHz of bandwidth
- +/- 0.5 dB flatness to 300 MHz typical
- Advanced synchronizing circuitry
- 75 Ohm BNC connectors for the input and each output
- Independent cable equalization control for the first two output channels
- Compatible with all RGB-HV, HD TV and DVD standards
- Internal universal power supply

## APPLICATIONS

- Boardrooms
- Houses of Worship
- Control rooms
- Classrooms
- Staging and Rental



# SPECIFICATIONS

## Video Input

Number/Type:	1 RGBS (audio channel not used), RGB, RsGsBs, Component video, S-video, Composite video
Connectors:	3 or 4 female BNC (the fourth can be used for digital audio instead of sync)
Impedance:	75 Ohms
Input Levels:	
RGB	0.7V p-p
Y of component video	1V p-p
S-video	1V p-p
Composite video	1V p-p
R-Y, B-Y component video	0.3V p-p
C of S-video	0.3V p-p
Min/Max Levels:	0.3V p-p to 2V p-p with no offset
Horizontal Frequency:	15kHz to 180kHz
Vertical Frequency:	15Hz to 170Hz
Differential phase error:	0.2 degrees at 3.58 MHz (NTSC), 4.43 MHz (PAL)
Differential Gain error:	0.1% at 3.58 MHz (NTSC), 4.43 MHz (PAL)

## Video Output

Number/Type:	6 RGBS (audio channel not used), RGB, RsGsBs, Component video, S-video, Composite video
Connectors:	6 groups of 4 BNC
Impedance:	75 Ohms
Output Levels:	
RGB	0.7V p-p
Y of component video	1V p-p
S-video	1V p-p
Composite video	1V p-p
R-Y, B-Y component video	0.3V p-p
C of S-video	0.3V p-p
Min/Max Levels:	0.3V p-p to 1.5V p-p
DC offset:	+/-20mV maximum with input at 0V offset

## Sync

Input Level:	Analog or TTL 0.5V to 5V p-p
Output Level:	5V into Hi -Z 2.4V into 75 Ohms
Input Impedance:	510 Ohms
Output Impedance:	75 Ohms
Propagation Delay:	15 nS max
Rise/Fall Time:	1 nS

## Digital Audio Input

Number/Type:	1 Dolby Digital, DTS, AES/EBU, SP/DIF
Connectors:	1 female BNC
Impedance:	510 Ohms
Nominal Level:	1V (consumer), 2V (professional)
Min/Max Levels:	0.5V p-p to 5V p-p
Sampling Rates:	32 kHz, 44.1 kHz, 48 kHz, 96 kHz

## Digital Audio Output

Number/Type:	6 Dolby Digital, DTS, AES/EBU, SP/DIF
Connectors:	6 female BNC
Impedance:	75 Ohms
Output Level:	2.4V p-p into 75 Ohms
Propagation Delay:	15 nS max
Rise Fall Time:	1 nS max

## General

Power:	100VAC to 240VAC, 50/60 Hz, internal, autoswitch 0.65A/115V, 0.4A/230V
Enclosure:	Metal 1 Rack Unit

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