



AD1421 and AD1422 Series

VIDEO AMPLIFIERS



The AD1421 Series Video Distribution Amplifier distributes and amplifies the signal from one video input to four video outputs. Independent and isolated amplifiers for each individual output means that shorts, opens or noises on one output will not affect the remaining three outputs. No manual adjustment required.

The AD1422 Series Video Line Amplifier amplifies and equalizes the signal from a single video input to a single remote video output. An easy-to-use, continuously adjustable control equalizes all amplifier characteristics, simultaneously correcting for signal loss, high frequency attenuation, differential delay and other signal distortions typically associated with long video cables. The unit restores picture quality on video cables up to 1,500 m (one mile) in length. Two units can be cascaded together for distances up to 3,000 m (two miles).

On both units, a front panel LED indicates presence or absence of video. When the video amplifier detects video loss, it can automatically trigger an alarm.

FEATURES

Video Distribution Amplifier (AD1421)

- One video input to four video outputs
- Video loss detection with alarm

Video Line Amplifier (AD1422)

- Line-length compensation control
- Individual gain and HF boost controls
- Line driver usage
- Video amplifier usage
- Video loss detection

AD1421Video Distribution Amplifier

Video Input	One 75 Ω , BNC, 0.5 to 2.0 Vp-p, terminated
Video Outputs	Four 75 Ω , BNC
Gain	Unity
Bandwidth	20 MHz (± 0.5 dB, 10 Hz to 10 MHz)
Signal-to-Noise Ratio	-70 dB
Differential Phase	Less than 0.5°
Differential Gain	Less than 0.5%
Tilt	Less than 0.5%
Video Loss/Presence Indicator	Front panel, two color LED; green when video is present; red when video is absent
Video Loss Output	Open collector pull-down for video loss signal; mating connector supplied

Supply Voltage	
AD1421	120 VAC, 50/60 Hz
Power Consumption	3.0 watts, nominal

Dimensions (H x W x D)	48 x 109 x 183 mm (1.88 x 4.30 x 7.20 in)
Unit Weight	0.5 kg (1.1 lbs)
Shipping Weight	1.0 kg (2.2 lbs)
Mounting	Desktop
Color	Shadow gray

Operating Temperature0° to 49° C (32° to 120° F)
Humidity95% RH (non-condensing)
Storage Temperature-40° to 70° C (-40° to 155° F)

EmissionsFCC Part 15, Class A
SafetyUL1492

AD1422Video Line Amplifier

Video Input	One 75 Ω , BNC, 0.3 to 2.0 Vp-p, terminated
Video Output	One 75 Ω , BNC
Video Compensation	.25 dB max.
Gain	-3 to +6 dB
Cable Length	
Compensation	.0 to +15 dB
High Frequency Boost	.0 to +10 dB
Signal-to-Noise Ratio	-70 dB
Differential Phase	Less than 0.5°
Differential Gain	Less than 0.5%
Tilt	Less than 0.5%
Video Loss/Presence	
Indicator	Front panel, two color LED; green when video is present; red when video is absent
Video Loss Output	Open collector pull-down for video loss signal; mating connector supplied

Supply Voltage	
AD1422	120 VAC, 50/60 Hz
Power Consumption	3.0 watts, nominal

Dimensions (H x W x D)	48 x 109 x 183 mm (1.88 x 4.30 x 7.20 in)
Unit Weight	0.5 kg (1.1 lbs)
Shipping Weight	1.0 kg (2.2 lbs)
Mounting	Desktop
Color	Shadow gray

Operating Temperature0° to 49° C (32° to 120° F)
Storage Temperature-40° to 70° C (-40° to 155° F)
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