

# **FEATURES**

# **Video Distribution** Amplifier (AD1421)

- One video input to four video outputs
- Video loss detection with Individual gain and HF alarm

# Video Line Amplifier (AD1422)

- Line-length compensation control
- boost controls
- Line driver usage
- Video amplifier usage
- Video loss detection

# 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.

# **SPECIFICATIONS**

#### **Model Number**

# Operational

Video Outputs . . . . . . . . . . Four 75  $\Omega$ , BNC

Gain ......Unity

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

#### **Electrical**

Supply Voltage

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

#### Mechanical

Dimensions (H x W x D) .......48 x 109 x 183 mm (1.88 x 4.30 x 7.20 in)

Shipping Weight . . . . . . . . . . 1.0 kg (2.2 lbs) Mounting ......Desktop Color ......Shadow gray

### **Environmental**

Storage Temperature ......40° to 70° C (-40° to 155° F)

# Regulatory

Emissions ......FCC Part 15, Class A

#### **Model Number**

AD1422 ......Video Line Amplifier

# Operational

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. 

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

#### **Electrical**

Supply Voltage

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

#### Mechanical

Dimensions (H x W x D) .......48 x 109 x 183 mm

(1.88 x 4.30 x 7.20 in)

Mounting ......Desktop Color ......Shadow gray

#### Environmental

Operating Temperature . . . . . . . 0° to 49° C (32° to 120° F) Storage Temperature .....-40° to 70° C (-40° to 155° F) 

#### Regulatory

Emissions ......FCC Part 15, Class A 



