

LTC 5231/90 and LTC 5234/90 Video Distribution Amplifiers

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Invented for life



- ▶ Compatible with NTSC/PAL video standards
- ▶ No user adjustments needed
- ▶ Supports Bilinx video signals
- ▶ Video presence indicators
- ▶ Video-Loss-Detection output

The LTC 5231/90 and LTC 5234/90 are video distribution amplifiers that provide multiple video outputs identical to the video input signal. Their ample bandwidth easily supports today's high-resolution video signals. A video-loss-detection feature is available for interfacing to external monitoring equipment.

The LTC 5231/90 and the LTC 5234/90 also support Bilinx technology, allowing bidirectional communication through the video cable to access and control Bilinx-enabled devices such as AutoDome® and Dinion® cameras. A maximum of two (2) different types of Bilinx controller models can communicate to a common Bilinx-capable camera. Contact a Bosch Security Systems Sales Representative regarding future product capabilities.

The LTC 5231/90 is a single-channel video distribution amplifier with four (4) video outputs for distribution to other video devices. A front panel LED indicates the presence of video.

The LTC 5234/90 is a 4-channel video distribution amplifier. It has four (4) independent distribution amplifiers, each with one input and three outputs. Front panel LEDs for each distribution amplifier channel indicates the presence of video.

These are indoor products and supplied as desktop units. Rack-mount kits are available from Bosch Security Systems for mounting in a standard EIA 48-cm (19-in.) rack.

Certifications and approvals

Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003 and CE regulations
Product Safety	Complies with CE regulations, UL, CSA, EN and IEC Standards

Technical specifications

Electrical

LTC 5231/90: Single-channel

Model Number	LTC 5231/90
Rated Voltage	120/230 VAC, 50/60 Hz
Voltage Range	108 to 264
Power at Rated Voltage	3.5 W
Video Inputs	One (1), fixed 75 Ohm termination
Signal Range	0.7 Vp-p to 1.4 Vp-p

Video Outputs	Four (4) isolated, 75 Ohm
Video Gain	Unity +1.0/-0%
Signal-to-noise	-72 dB typical
Bandwidth-3 dB Point	33 MHz typical
Differential Gain	0.7% typical
Differential Phase	0.8° typical
Field Time Distortion	2.9%
Video-loss Output	Relay contact pair
	Rating: 1 A at 40 VAC/VDC max.
Indicators	Power on LED (green)
	Video presence LED (green)

Mechanical

Construction	Steel chassis with sheet metal cover and plastic bezel
Finish	Charcoal
Size (H x W x D)	4.1 x 23.4 x 26.2 cm (1.6 x 8.8 x 10.3 in.)
Weight	Approximately 1.5 kg (3.4 lb)

Environmental

Operating Temperature	0°C to 50°C (32°F to 122°F)
Humidity	20% to 90% relative, non-condensing

Options

EIA 48-cm (19-in.) Rack Kit	LTC 9101/00
	Height: 1 standard rack unit
	Width: 1 standard rack unit

Electrical

LTC 5234/90: 4-channel

Model Number	LTC 5234/90
Rated Voltage	120/230 VAC, 50/60 Hz
Voltage Range	108 to 264
Power at Rated Voltage	5.5 W
Video Inputs	Four (4), fixed 75 Ohm termination
Signal Range	0.7 V _{p-p} to 1.4 V _{p-p}
Video Outputs	Three (3) for each channel, 75 Ohm
Video Gain	Unity +1.0/-0%
Signal-to-noise	-72 dB Typical
Bandwidth-3 dB Point	33 MHz Typical
Differential Gain	0.6% Typical

Differential Phase	0.6° Typical
Field Time Distortion	2.2%
Video-loss Output	Relay contact pair for each channel Rating: 1 A at 40 VAC/VDC max.
Indicators	Power on LED (green)
	Four (4) video presence LEDs (green)

Mechanical

Construction	Steel chassis with sheet metal cover and plastic bezel
Finish	Charcoal
Size (H x W x D)	4.1 x 23.4 x 26.2 cm (1.6 x 8.8 x 10.3 in.)
Weight	Approximately 1.6 kg (3.6 lb)

Environmental

Operating Temperature	0°C to 50°C (32°F to 122°F)
Humidity	20% to 90% relative, non-condensing

Bilinx, AutoDome, and Dinion are registered by Bosch Security Systems, Inc. in the US patent trademark office.

Ordering information

LTC 5231/90 Video Distribution Amplifier

1 input, 4 output, half rack, 120/230 VAC, 50/60 Hz, mounting only with LTC 9101/00
Order number **LTC 5231/90**

LTC 5234/90 Video Distribution Amplifier

1 input, 3 output, half rack, 120/230 VAC, 50/60 Hz, mounting only with LTC 9101/00
Order number **LTC 5234/90**

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