

DA4 12G HD-SDI

FOUR OUTPUT 12G-SDI DISTRIBUTION AMPLIFIER

4K UHD



The DA4 12G HD-SDI is a compact one-input, four-output distribution amplifier for multi-rate SDI digital video signals which enables 3G-SDI, 6G-SDI, or 12G-SDI digital video to be distributed over long distances on coaxial cable. This distribution amplifier supports all common serial digital video data rates up to 11.88 Gbps, while passing HDR, up to 16 channels of embedded audio, and other ancillary data. It is housed in a quarter rack width, metal enclosure and provides integration-friendly mounting options into both new and existing AV systems.

- ▶ Automatically adapts to SMPTE and ITU digital video standards for SDI signals up to a 12G-SDI data rate
- ▶ Supports data rates from 270 Mbps to 11.88 Gbps
- ▶ Support for HDR – High Dynamic Range video
- ▶ Automatic input equalization
- ▶ Automatic output reclocking
- ▶ Passes HDR, up to 16 channels of embedded audio, and other ancillary data including closed caption and time code

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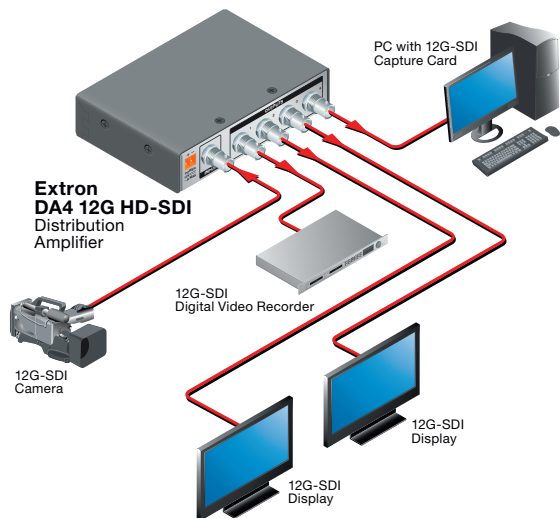
DESCRIPTION

The **DA4 12G HD-SDI** is a compact one-input, four-output distribution amplifier for multi-rate SDI digital video signals. It supports all common serial digital video data rates up to 11.88 Gbps, while passing HDR, up to 16 channels of embedded audio, and other ancillary data allowed by the SMPTE and ITU standards. Automatic input cable equalization adds up to 590 feet (180 meters) for 3G-SDI, up to 295 feet (90 meters) for 6G-SDI, and up to 230 feet (70 meters) for 12G-SDI digital video, when using RG6 cable. The DA4 12G HD-SDI is housed in a quarter rack width, metal enclosure, providing integration-friendly mounting options into both new and existing AV systems.

KEY FEATURES

- ▶ Automatically adapts to SMPTE and ITU digital video standards for SDI signals up to a 12G-SDI data rate
- ▶ Supports data rates from 270 Mbps to 11.88 Gbps
- ▶ Support for HDR – High Dynamic Range video
- ▶ Automatic input equalization
- ▶ Automatic output reclocking
- ▶ Passes HDR, up to 16 channels of embedded audio, and other ancillary data, including closed caption and time code
- ▶ Input rate LEDs
- ▶ Rack mountable, quarter rack width metal enclosure
- ▶ External Extron Everlast power supply included, replacement part #70-1175-01
- ▶ Extron Everlast Power Supply is covered by a 7-year parts and labor warranty

APPLICATION DIAGRAM



SPECIFICATIONS

TRUE 4K SPECIFICATION

| Max 4K Capabilities | | |
|--|-----------------|-------------------------|
| Resolution and Refresh Rate | Chroma Sampling | Max Bit Depth per Color |
| 4096 x 2160 at 30 Hz 3840 x 2160 at 30 Hz | 4:4:4 | 8 bit |
| 4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz | 4:2:2 | 10 bit |

| | |
|------------------------------|-----------------------------------|
| Frame rate ¹ | 24, 25, 30, 50, or 60 fps |
| Chroma sampling ¹ | 4:4:4, 4:2:2, and 4:2:0 |
| Color bit depth ¹ | 8 or 10 bits per color |
| Signal type | 6G-SDI, 12G-SDI |
| Max. video data rate | 11.88 Gbps per 12G-SDI connection |

NOTE: ¹Subject to the maximum data rate limit. Use our calculator (<http://www.extron.com/product/videotools.aspx>) to determine video parameters supported by this data rate.

VIDEO

| | |
|---------------------|--|
| Signal type | SDI, HD-SDI, 3G-SDI, 6G-SDI, and 12G-SDI digital video |
| Resolution | 8 or 10 bits, automatic |
| Operation standards | SMPTE-259M, SMPTE-292M, SMPTE-424M, SMPTE-372M, SMPTE ST-2081, SMPTE 2082, ITU-RBT.601, ITU-RBT.1120 |

VIDEO INPUT

| | |
|--------------------|--|
| Number/signal type | 1 single link SDI, HD-SDI, 3G-SDI, 6G-SDI, 12G-SDI digital component video |
| Equalization | Automatic for up to -30 dB of cable loss |
| 12G-SDI | 70 meters (230 feet) |
| 6G-SDI | 90 meters (295 feet) |
| 3G-SDI | 180 meters (590 feet) |

NOTE: Transmission distance will vary depending on the signal resolution, the type of cable, source and display used in the system.

VIDEO OUTPUT

| | |
|--------------------|---|
| Number/signal type | 4 single link SDI, HD-SDI, 3G-SDI, 6G-SDI, 12G-SDI digital component video |
| Re-clocking | Automatic for 270 Mbps, 1.485 Gbps, 2.97 Gbps, 5.94 Gbps, and 11.88 Gbps (bypassed for other rates) |

AUDIO

| | |
|----------------|----------------------------|
| Audio channels | Supports up to 16 channels |
|----------------|----------------------------|

GENERAL

| | |
|--------------------------------|---|
| Power supply | External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 0.5 A, 6 watts |
| Power input requirements | 12 VDC, 0.2 A |
| Enclosure dimensions | 1.0" H x 4.3" W x 3.0" D (quarter rack wide) (2.5 cm H x 11 cm W x 7.6 cm D) (Depth excludes connectors.) |
| Product weight | 0.33 lbs (0.15 kg) |
| Regulatory compliance | CE, CUL, UL, FCC Class A, VCCI, AS/NZS, ICES |
| Warranty | 3 years parts and labor |
| Everlast power supply warranty | 7 years parts and labor |

| Model | Version Description | Part number |
|----------------|--|-------------|
| DA4 12G HD-SDI | Four Output 12G-SDI Distribution Amplifier | 60-1674-01 |

For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.

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