



UTIL-200, UTIL-200-AUDIO & UTIL-200-AV VIDEO & AUDIO DA, TEST SIGNAL & CHARACTER ID MODULAR UTILITY TRAYS

- The model **UTIL-200** accommodates up to **10 modular Video DA, Character ID, Test Signal cards** and **2 redundant power supplies, compatible with Grass Valley 8500/8800/8900 trays.**
- The model **UTIL-200-AUDIO** accommodates up to **10 modular Audio DA cards** and **2 redundant power supplies.**
- The model **UTIL-200-AV** accommodates up to **5 modular Video DA, Character ID, Test Signal cards**, up to **5 modular Audio DA cards** and **2 redundant power supplies.**
- Each **video DA** includes a differential loop-through input and **8 outputs fully GRASS VALLEY™ compatible.**
- All video distribution amplifiers have a minimum **Gain range of +/- 6 dBs** and an output isolation of **> 40 dBs.**
- Clamping, Hum Eliminating, Precision Equalizing, Test Signals, VU Meters and Fiber Optic cards available for all applications.
- Each **video DA** card has a front panel **Video Present LED indicator** for quick **signal continuity verification.**
- Each **audio DA** card has a front panel **Bi-colored LED VU** or an optional **10 segment LED VU meter.**
- Tray mounts in standard **2 rack-unit** space with dimensions of **14" x 19" x 3.5" (L x W x H).**
- The standard power supply **PS-200-AC** has a universal input voltage range from **85 to 265 VAC.** No need to set voltage selector switches; simply plug in and forget.
- The 48 VDC power supply **PS-200-48VDC** has an input voltage range from **36 to 60 VDC.** Ideal for Telephone Company central office applications.
- External alarm relay contacts and front panel LED indicators for each power supply are included.

ORDERING INFORMATION:

Model UTIL-200-2RU-AC, Video, Modular Utility Tray, one 85-265 VAC Power Supply & Line Cord.

Model UTIL-200-AUDIO-2RU-AC, Audio, Modular Utility Tray, one 85-265 VAC Power Supply & Line Cord

Model UTIL-200-AV-2RU-AC, Audio/Video, Modular Utility Tray, one 85-265 VAC Power Supply & Line Cord

Model UTIL-200-2RU-48VDC, 10 Slot, 2 RU, Modular Utility Tray, one 36-60 VDC Power Supply.

Model PS-200-AC, Modular 85-265 VAC Power Supply & Line Cord for 200 series trays.

Model PS-200-48VDC, Modular 36-60 VDC Power Supply for 200 series trays.

Designed and manufactured in the U. S. A.



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VDA-201, 20 MHz, Utility DA for Video, Pulse, Subcarrier and AES/EBU Digital Audio, 1x8, Modular Card

The VDA-201 is an economical high performance distribution amplifier ideal for applications where clamping and cable equalization are not required. The DA will cancel up to 60 Volts of common-mode hum. The unit includes a differential loop-through input and eight outputs with a front panel video presence LED. The DA is ideal for short cable runs to monitors and for the distribution of color black burst reference signals. The full line VDA-200 Distribution Amplifiers support the 75 Ohm coaxial distribution of AES/EBU digital audio signals. The modular design is compatible with the MULTIDYNE UTIL-200 and the Grass 8500/8800/8900 trays.

Specifications:

Input: Type: 2 BNC Loop-through. **Impedance:** 75 Ohms. **Return Loss:** > 40 dB up to 5 MHz.

Output: Type: 8 BNC. **Impedance:** 75 Ohms. **Return Loss:** > 35 dB up to 5 MHz. **Performance: Bandwidth,** 3 dB: 25 MHz. **Frequency Response,** 10 Hz to 5 MHz: +/-0.025 dB; 5 MHz to 8 MHz: +/-0.05 dB; 8 MHz to 20 MHz: +/-0.2 dB. **Differential Gain:** <0.1 %; **Differential Phase:** <0.1°. **Line or Field Tilt:** <0.5 %. **Signal to Noise:** > 80 dB. **Common Mode Rejection (60 Hz):** >66 dB. **Return Loss, to 5 MHz:** >42 dB. **Power Consumption, MAX:** 2 Watts

VDA-202, 20 MHz, Utility DA for Video, Pulse, Subcarrier and AES/EBU Digital Audio with Back-porch Clamp, 1x8, Modular Card

The VDA-202 is an economical high performance distribution amplifier ideal for applications where clamping is required and cable equalization is not required. The DA is ideal for long cable runs to monitors, for the distribution of color black burst reference signals and for studio to studio distribution of video signals where ground differences or DC off-sets may exist. The clamp circuit in the FAST mode will remove differential mode hum from the video signal on a line by line basis. The DA will cancel up to 60 Volts of common-mode hum. The unit includes a differential loop-through input and eight outputs with a front panel video presence LED. The full line VDA-200 Distribution Amplifiers support the 75 Ohm coaxial distribution of AES/EBU digital audio signals. The modular design is compatible with the MULTIDYNE UTIL-200 and the Grass 8500/8800/8900 trays.

Specifications:

Input: Type: 2 BNC Loop-through. **Impedance:** 75 Ohms. **Return Loss:** > 40 dB up to 5 MHz.

Output: Type: 8 BNC. **Impedance:** 75 Ohms. **Return Loss:** > 35 dB up to 5 MHz. **Performance: Bandwidth,** 3 dB: 25 MHz. **Frequency Response,** 10 Hz to 5 MHz: +/-0.025 dB; 5 MHz to 8 MHz: +/-0.05 dB; 8 MHz to 20 MHz: +/-0.2 dB. **Clamp type:** Back-porch, sampling, feedback. **Differential Gain:** <0.1 %; **Differential Phase:** <0.1°. **Line or Field Tilt:** <0.5 %. **Signal to Noise:** > 80 dB. **Common Mode Rejection (60 Hz):** >66 dB. **Return Loss, to 5 MHz:** >42 dB. **Power Consumption, MAX:** 2 Watts

VDA-210, 20 MHz, Utility DA for Video, Pulse, Subcarrier and AES/EBU Digital Audio with 1500 Ft. Equalizer & Back Porch Clamp, 1x8, Modular Card

The VDA-210 is an economical high performance distribution amplifier ideal for applications where clamping and cable equalization are required. The DA is ideal for very long cable runs of up to 1500 feet to monitors, for the distribution of color black burst reference signals and for studio to studio distribution of video signals where ground differences or DC off-sets may exist. The clamp circuit in the FAST mode will remove differential mode hum from the video signal on a line by line basis. The DA will cancel up to 60 Volts of common-mode hum. The equalization feature compensates for up to 1500 feet of cable losses for one type of cable. Please specify the cable type to be used. The unit includes a differential loop-through input and eight outputs with a front panel video presence LED. The full line VDA-200 Distribution Amplifiers support the 75 Ohm coaxial distribution of AES/EBU digital audio signals. The modular design is compatible with the MULTIDYNE UTIL-200 and the Grass 8500/8800/8900 trays.

Specifications:

Input: Type: 2 BNC Loop-through. **Impedance:** 75 Ohms. **Return Loss:** > 40 dB up to 5 MHz.

Output: Type: 8 BNC. **Impedance:** 75 Ohms. **Return Loss:** > 35 dB up to 5 MHz. **Performance: Bandwidth,** 3 dB: 25 MHz. **Frequency Response,** 10 Hz to 5 MHz: +/-0.025 dB; 5 MHz to 8 MHz: +/-0.05 dB; 8 MHz to 20 MHz: +/-0.2 dB. **Clamp type:** Back-porch, sampling, feedback. **Equalization Range:** 8281 type cable 0 - 1500 Ft with single control; RG-59U type cable 0 - 1000 Ft with single control.

Equalization Accuracy: 10 Hz to 5 MHz: +/- 0.05 dB; 5 MHz to 8 MHz: +/- 0.10 dB, 8 MHz to 10 MHz: +/- 0.20 dB. **Differential Gain:** <0.1 %; **Differential Phase:** <0.1°. **Line or Field Tilt:** <0.5 %. **Signal to Noise:** > 80 dB. **Common Mode Rejection (60 Hz):** >66 dB.

Return Loss, to 5 MHz: >42 dB. **Power Consumption, MAX:** 2 Watts



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VDA-220, 20 MHz, Field DA for Video, Pulse, Subcarrier and AES/EBU Digital Audio with 1500 Ft. Equalizer for 8281 & RG-59U cable & Back Porch Clamp, 1x8, Modular Card

The VDA-220 is an economical high performance distribution amplifier ideal for applications where clamping and cable equalization are required. The DA is ideal for very long cable runs of up to 1500 feet to monitors, for the distribution of color black burst reference signals and for studio to studio distribution of video signals where ground differences or DC off-sets may exist. The clamp circuit in the FAST mode will remove differential mode hum from the video signal on a line by line basis. The DA will cancel up to 60 Volts of common-mode hum. The units is also ideal for field, remote, sporting and ENG field applications where multiple cable types may be in use. The equalization feature compensates for up to 1500 feet of cable losses for two type of cable. The user can switch select cable equalizers for either 8281 and RG-59U or any two types of cable. Please specify the cable type to be used. The unit includes a differential loop-through input and eight outputs with a front panel video presence LED. The full line VDA-200 Distribution Amplifiers support the 75 Ohm coaxial distribution of AES/EBU digital audio signals. The modular design is compatible with the MULTIDYNE UTIL-200 and the Grass 8500/8800/8900 trays.

Specifications:

Input: Type: 2 BNC Loop-through. **Impedance:** 75 Ohms. **Return Loss:** > 40 dB up to 5 MHz.

Output: Type: 8 BNC. **Impedance:** 75 Ohms. **Return Loss:** > 40 dB up to 5 MHz. **Performance: Bandwidth,** 3 dB: 25 MHz. **Frequency Response,** 10 Hz to 5 MHz: +/-0.025 dB; 5 MHz to 8 MHz: +/-0.05 dB; 8 MHz to 20 MHz: +/-0.2 dB. **Clamp type:** Back-porch, sampling, feedback. **Equalization Range:** 8281 type cable 0 - 1500 Ft with single control; RG-59U type cable 0 - 1000 Ft with single control.

Equalization Accuracy: 10 Hz to 5 MHz: +/- 0.05 dB; 5 MHz to 8 MHz: +/- 0.10 dB, 8 MHz to 10 MHz: +/- 0.20 dB. **Differential Gain:** <0.1 %; **Differential Phase:** <0.1° . **Line or Field Tilt:** <0.5 % . **Signal to Noise:** > 80 dB. **Common Mode Rejection (60 Hz):** >66 dB.

Return Loss, to 5 MHz: >42 dB. **Power Consumption, MAX:** 2 Watts

VDA-8505, 20 MHz, Long Range Field DA for Video, Pulse, Subcarrier and AES/EBU Digital Audio with 3500 Ft. Equalizer for 8281 & RG-59U cable & Back Porch Clamp, 1x8, Modular Card

The VDA-8505 is an economical high performance distribution amplifier ideal for applications where clamping and long range cable equalization are required. The DA is ideal for long range cable runs of up to 3500 feet to monitors, for the distribution of color black burst reference signals and for studio to studio distribution of video signals where ground differences or DC off-sets may exist. The clamp circuit in the FAST mode will remove differential mode hum from the video signal on a line by line basis. The DA will cancel up to 60 Volts of common-mode hum. The units is also ideal for field, remote, sporting and ENG field applications where multiple cable types may be in use. The equalization feature compensates for up to 3500 feet of cable losses for two type of cable. The user can switch select cable equalizers for either 8281 and RG-59U or any two types of cable. The equalizer has switch selectable 1000 foot and 2000 foot fixed equalization stages and a 1000 foot adjustable stage for fine adjustments. Please specify the cable type to be used. The **model VDA-8505T** includes **high frequency compensation** for an **external, hum-bucking, isolation transformer**. An isolation transformer is sold separately, part number -TRANS. A rack-mounting kit for 9 transformers is available, part number -RMTRANS. The high-speed clamp circuitry tracks hum and low frequency distortion including field rate tilt. The unit includes a differential loop-through input and eight outputs with a front panel, video presence, LED. The full line VDA-200 Distribution Amplifiers support the 75 Ohm coaxial distribution of AES/EBU digital audio signals. The modular design is compatible with the MULTIDYNE UTIL-200 and the Grass 8500/8800/8900 trays.

Specifications:

Input: Type: 2 BNC Loop-through. **Impedance:** 75 Ohms. **Return Loss:** > 40 dB up to 5 MHz.

Output: Type: 8 BNC. **Impedance:** 75 Ohms. **Return Loss:** > 40 dB up to 5 MHz. **Performance: Bandwidth,** 3 dB: 25 MHz. **Frequency Response,** 10 Hz to 5 MHz: +/-0.025 dB; 5 MHz to 8 MHz: +/-0.05 dB; 8 MHz to 20 MHz: +/-0.2 dB. **Clamp type:** Back-porch, sampling, feedback. **Equalization Range:** 8281 type cable 0 - 3500 Ft with single control; RG-59U type cable 0 - 3000 Ft with single control.

Equalization Accuracy: 10 Hz to 5 MHz: +/- 0.05 dB; 5 MHz to 8 MHz: +/- 0.10 dB, 8 MHz to 10 MHz: +/- 0.20 dB. **Differential Gain:** <0.1 %; **Differential Phase:** <0.1° . **Line or Field Tilt:** <0.5 % . **Signal to Noise:** > 80 dB. **Common Mode Rejection (60 Hz):** >66 dB.

Return Loss, to 5 MHz: >42 dB. **Power Consumption, MAX:** 2 Watts



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VAGC-200, Video Automatic Gain, 3000 ft Equalizer & Chroma Distribution Amplifier & Automatic Proc-amp, 1x8, Modular Card

The VDA-8505 is an economical high performance distribution amplifier ideal for applications where clamping and long range cable equalization are required. The DA is ideal for long range cable runs of up to 3500 feet to monitors, for the distribution of color black burst reference signals and for studio to studio distribution of video signals where ground differences or DC off-sets may exist. The clamp circuit in the FAST mode will remove differential mode hum from the video signal on a line by line basis. The DA will cancel up to 40 Volts of common-mode hum. The units is also ideal for field, remote, sporting and ENG field applications where multiple cable types may be in use. The equalization feature compensates for up to 3500 feet of cable losses for two type of cable. The user can switch select cable equalizers for either 8281 and RG-59U or any two types of cable. The equalizer has switch selectable 1000 foot and 2000 foot fixed equalization stages and a 1000 foot adjustable stage for fine adjustments. Please specify the cable type to be used. The unit includes a differential loop-through input and eight outputs with a front panel video presence LED. The full line VDA-200 Distribution Amplifiers support the 75 Ohm coaxial distribution of AES/EBU digital audio signals. The modular design is compatible with the MULTIDYNE UTIL-200 and the Grass 8500/8800/8900 trays.

Specifications:

Input: Type: 2 BNC Loop-through. **Impedance:** 75 Ohms. **Return Loss:** > 40 dB up to 5 MHz.

Output: Type: 8 BNC. **Impedance:** 75 Ohms. **Return Loss:** > 40 dB up to 5 MHz. **Performance: Bandwidth,** 3 dB: 25 MHz. **Frequency Response,** 10 Hz to 5 MHz: +/-0.025 dB; 5 MHz to 8 MHz: +/-0.05 dB; 8 MHz to 20 MHz: +/-0.2 dB. **Input Video Level Range:** 0.2 to 2 Volts. **Gain Accuracy:** +/- 0.05 dB. **Chrominance Burst Amplitude Accuracy:** +/- 0.05 dB. **Clamp type:** Back-porch, sampling, feedback. **Equalization Range:** 8281 type cable 0 - 3500 Ft with single control; RG-59U type cable 0 - 3000 Ft with single control. **Equalization Accuracy:** 10 Hz to 5 MHz: +/- 0.05 dB; 5 MHz to 8 MHz: +/- 0.10 dB, 8 MHz to 10 MHz: +/- 0.20 dB. **Chrominance Adjustment Range:** +/- 9 dB. **Differential Gain:** <0.1 %; **Differential Phase:** <0.1° . **Line or Field Tilt:** <0.5 %. **Signal to Noise:** > 80 dB. **Common Mode Rejection (60 Hz):** >66 dB. **Return Loss, to 5 MHz:** >42 dB. **Power Consumption, MAX:** 2 Watts

VDDA-200, Video Delay DA with 1500 Ft. Equalizer for 8281 & RG-59U cable & Back Porch Clamp, 1x8, Modular Card

The VDDA-200 Video Delay DA supports adjustable delay from 0 to 600 nano-seconds with +/- 6 nano-second fine adjustment. The unit is ideal for production and synchronization applications where precise timing of signals is required. The equalization feature compensates for up to 1500 feet of cable losses for two type of cable. The user can switch select cable equalizers for either 8281 and RG-59U or any two types of cable. Please specify the cable type to be used. The clamp circuit in the FAST mode will remove differential mode hum from the video signal on a line by line basis. The DA will cancel up to 60 Volts of common-mode hum. The unit includes a differential loop-through input and eight outputs with a front panel video presence LED. Exceptionally versatile for NTSC, PAL, SECAM and composite or component television systems. The compatible with the Grass 8500/8800/8900 trays.

Specifications:

Input: Type: 2 BNC Loop-through. **Impedance:** 75 Ohms. **Return Loss:** > 40 dB up to 5 MHz.

Output: Type: 8 BNC. **Impedance:** 75 Ohms. **Return Loss:** > 40 dB up to 5 MHz. **Performance: Bandwidth,** 3 dB: 25 MHz. **Frequency Response,** 10 Hz to 5 MHz: +/-0.025 dB; 5 MHz to 8 MHz: +/-0.05 dB; 8 MHz to 20 MHz: +/-0.2 dB. **Input Video Level Range:** 0.2 to 2 Volts. **Gain Accuracy:** +/- 0.05 dB. **Chrominance Burst Amplitude Accuracy:** +/- 0.05 dB. **Clamp type:** Back-porch, sampling, feedback. **Equalization Range:** 8281 type cable 0 - 3500 Ft with single control; RG-59U type cable 0 - 3000 Ft with single control. **Equalization Accuracy:** 10 Hz to 5 MHz: +/- 0.05 dB; 5 MHz to 8 MHz: +/- 0.10 dB, 8 MHz to 10 MHz: +/- 0.20 dB. **Chrominance Adjustment Range:** +/- 9 dB. **Differential Gain:** <0.1 %; **Differential Phase:** <0.1° . **Line or Field Tilt:** <0.5 %. **Signal to Noise:** > 80 dB. **Common Mode Rejection (60 Hz):** >66 dB. **Return Loss, to 5 MHz:** >42 dB. **Power Consumption, MAX:** 2 Watts

WVDA-250, 200 MHz Wide Band Video & DS-3 Data DA with 500 Ft. Equalizer, Back Porch Clamp, 1x8, Modular Card

The 200 MHz Band-Width of the WVDA-250 DA is ideal for the distribution of Wide-Band Composite Video, IF Video and Audio Carriers and High Speed Data. The unit can distribute signal over 50 Mega Bit/Sec Data including DS3 Telephone Compressed Digital Video. The unit includes a differential loop-through input and eight outputs with a front panel video presence LED. The DA features Post-Equalize 0-500 feet or Pre-Equalize 0-200 feet of 8281 type cable with exceptional accuracy and Back-porch clamp with hum cancellation. The clamp circuit in the FAST mode will remove differential mode hum from the video signal on a line by line basis. Applications include the distribution of IF Video and Audio Carriers, HDTV, Computer Graphics, DS3, DS1 and Digital Data. The modular design is compatible with the MULTIDYNE UTIL-200 and the Grass 8500/8800/8900 trays.

Specifications:

Input: Type: 2 BNC Loop-through. **Impedance:** 75 Ohms. **Return Loss:** > 38 dB up to 5 MHz.

Output: Type: 8 BNC. **Impedance:** 75 Ohms. **Return Loss:** > 38 dB up to 5 MHz. **Performance:** Conforms to the 44.736 Mb/s DS3 specifications. **Bandwidth, 3 dB:** 200 MHz. **Frequency Response:** 10 Hz to 5 MHz: +/-0.05 dB; 5 MHz to 10 MHz: +/-0.1 dB; 10 MHz to 40 MHz: +/-0.25 dB; 40 MHz to 80 MHz: +/-0.5 dB. **Post-Equalization Range:** 0 - 500 Ft of 8281 cable. **Pre-Equalization Range:** 0 - 200 Ft of 8281 cable. **Equalization Accuracy:** 0.05 dB/dB of loss to 10 MHz; 0.1 dB/dB of loss 10 MHz to 40 MHz; 0.2 dB/dB of loss 40 MHz to 90 MHz. **Differential Gain:** <0.2 %. **Differential Phase:** <0.2° . **Line or Field Tilt:** <0.5 %. **Signal to Noise:** > 80 dB. **Common Mode Rejection (60 Hz):** >65 dB. **Power consumption, MAX:** 2 Watts



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TS12-CARD, 10 Bit NTSC Test Signal Generator, Modular Card

The TS12-CARD, Modular 10 Bit NTSC Test Signal Generator offers 16 precision test signals, 5 dedicated black burst outputs, character source ID, APL settings, bounce and stereo audio tone in a modular card for the MULTIDYNE UTIL-200 and the Grass Valley™ 8500/8800 Modular Trays. Include SMPTE Color Bars, Multiburst, Multipulse, Cable 5 MHz Sweep, Cable (SIN X)/X, NTC-7 Composite and Combination plus many others. Video/Audio Lip-sync Signal and vertical interval test signals (VITS) which are fully compatible with the TEK™ VM700A™.

AB-200, Four Channel, Video Automatic Bypass and Signal Change-over Switch, switches to secondary source when primary source fails, 4 Channels, Modular Card

Automatically monitor 4 video channels. If the video signal goes off the air or if the video circuit is inactive, an alternate video signal is switched onto the line automatically. The system uses sync recognition and is not fooled by white noise of off air signals. Ideal for Satellite, Microwave, Off-air Antenna and Cable TV Head-end applications. If you lose a video feed, automatically put up an emergency message or alternate video signal. Automatically test continuity and performance of video feeds. Switch a test signal and character ID onto the circuit when there is a problem or when it is not in use. The unit features front panel LED status indicators and high impedance loop-through input for the secondary or test signal input. The user can loop the secondary inputs of several cards together. The unit offers low loss switching using RF relays. Program video will loop-through upon power failure. The modular design is compatible with the MULTIDYNE UTIL-200 and the Grass 8500/8800/8900 trays.

SPECIFICATIONS:

Input: Nominal Levels Video: 1 Vp-p. **Return loss:** >40 dB. **Output: Video Level:** 1 Vp-p. **Source termination:** 75 Ohms. **Video: Frequency (DC to 5MHz): +/-0.05 dB** **Power consumption, MAX:** <2 Watts

CG-200, Video Character ID and Audio Sweep Generator, Modular Card

The CG-200 Video Character ID Generator inserts a character message over video; manual bypass from program to an alternate video source; 16+ page battery-backed memory; 6 lines with 15 characters; 30 character Vertical Interval ID; motion bar; alarm output; 20 to 20 KHz Audio Sweep and plugs into the MULTIDYNE UTIL-200 and the Grass Valley™ 8500/8800 Modular Trays. The CG-200 is ideal for identifying video feeds and audio feeds.

ADAM-200, Mono Audio Distribution Amplifier , 1x8, Modular Card

The ADAM-200 Mono Audio DA is available in 50 or 600 Ohm versions with 1 in 8 out, Gain -6 to +33 dB and S/N 100 dB. The DA includes a front panel Bi-colored LED VU or an optional 10 segment LED VU meter. The ADAM-200 is ideal for the distribution of monaural audio signals and for hum cancellation.

ADAS-200, Stereo Audio Distribution Amplifier , 2x4, Modular Card

The ADAS-200 Stereo Audio DA is available in 50 or 600 Ohm versions with 2 in 4 out, Gain -6 to +33 dB and S/N 100 dB. The DA includes a front panel Bi-colored LED VU or an optional 10 segment LED VU meter. The ADAS-200 is ideal for the distribution of stereo audio signals and for hum cancellation.

AAGC-200, Automatic Audio Gain Distribution Amplifier ,1x8, Modular Card

The AAGC-200 Automatic Audio Gain DA is available in 50 or 600 Ohm versions with 1 in 8 out, Gain -6 to +33 dB and S/N 100 dB. The DA includes a front panel Bi-colored LED VU or an optional 10 segment LED VU meter. The AAGC-200 is ideal for the distribution of audio signals where consistent levels are required to prevent clipping and distortion.



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