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7000 Series
RossGear



7000 Series

Analog audio and video distribution.

RossGear
Terminal Equipment

ROSS

7000 Series RossGear

7000 Series RossGear

AUDIO AND VIDEO FRAMES & ACCESSORIES

VFR-7214	1RU Analog Video Products Mounting Frame	page 6
VFR-7210	2RU Analog Video Products Mounting Frame	page 6
VFR-7514	1RU Analog Video Products Mounting Frame	page 7
VFR-7510	2RU Analog Video Products Mounting Frame	page 7
AFR-7814C	2RU Analog Audio Products Mounting Frame	page 16
AFR-7812C	2RU Analog Audio Products Mounting Frame	page 16
AFR-7574C	1RU Analog Audio Products Mounting Frame	page 17
AFR-7550C	2RU Analog Audio Products Mounting Frame	page 17
AVFR-7854C	1RU Analog Audio / Video Products Mounting Frame	page 26
AVFR-7855C	2RU Analog Audio / Video Products Mounting Frame	page 26

Analog Video

VIDEO DISTRIBUTION

VTA-7000	TruckAMP Remote-Controlled Video Equalizing Amplifier	page 8
VEA-7001A	Video Equalizing Amplifier with Clamping	page 9
VEA-7502	Video Equalizing Amplifier with Clamping	page 9
VEA-7007A	Video Equalizing Amplifier	page 10
VDA-7013A	Video Distribution Amplifier	page 11
VDA-7501	Video Distribution Amplifier	page 11
UDA-7005A	Utility Distribution Amplifier	page 12
VDL-7014	Video Delay Amplifier	page 13

Analog Audio

AUDIO DISTRIBUTION & MONITORING

ADA-7801	Audio Distribution Amplifier	page 18
ADA-7551	Audio Distribution Amplifier	page 18
ADA-7802	Stereo / Mono Audio Distribution Amplifier	page 19
ADA-7554	Stereo / Mono Audio Distribution Amplifier	page 19
ADA-7555	Stereo / Mono Audio Distribution Amplifier w/ Separate Output Level Controls	page 20
PAA-7803	Programmable Audio Distribution Amplifier	page 21
RSA-7806	Remote Gain Stereo Amplifier	page 22
TDA-7891	Timecode Distribution Amplifier	page 23
ADA-7802V	Stereo / Mono Audio Distribution Amplifier	page 27

> The RossGear 7000 Series product line offers a wide range of analog products to cover all your A/V distribution needs. Housed in modular 1RU and 2RU frames, all modules are hot-pluggable and are feature packed with the industry's highest performance specifications.



Table of Contents

Page

V Analog Video 5

A Analog Audio 15

AV Analog Audio / Video 25

Index 28

7000 Series RossGear

V Analog Video

RossGear: Analog Video - page 5
> The most highly respected line of video distribution products available.

A Analog Audio

RossGear: Analog Audio - page 15
> A broad line of analog audio distribution products.

AV Analog Audio / Video

RossGear: Analog Audio / Video - page 25
> The easiest way to mix analog audio and video products in a cost-effective frame.

Analog Video

Page

VFR-7214 / VFR-7210 6
Video DA Mounting Frames

VFR-7514 / VFR-7510 7
Video DA Mounting Frames

VTA-7000 8
TruckAMP Remote-Controlled Video Equalizing Amplifier

VEA-7001A / VEA-7502 9
Video Equalizing Amplifier with Clamping

VEA-7007A 10
Video Equalizing Amplifier

VDA-7013A / VDA-7501 11
Video Distribution Amplifier

UDA-7005A 12
Utility Distribution Amplifier

VDL-7014 13
Video Delay Amplifier

EasyFLAT™
The products indicated incorporate the revolutionary easyFLAT™ one control cable equalization technology to provide quick and easy installation. EasyFLAT™ guarantees the flattest equalized frequency response in the industry. Installation requires normal available test signals. Precise factory calibration eliminates the need for sweep testing.



VFR-7214 (1RU)



VFR-7210 (2RU)

1RU and 2RU Video DA Mounting Frames

The VFR-7214 Video DA Mounting Frame accommodates up to four Ross 7000 series or Leitch 680 series DAs in one rack unit.
The VFR-7210 Video DA Mounting Frame accommodates up to ten Ross 7000 series or Leitch 680 series DAs in two rack units.

The above frames employ rugged aluminum construction that provides superb heat dissipation as well as the highest quality connectors, and a durable finish. We have achieved a major improvement in reliability of the power supply and excellent video noise performance, even in the slots next to the power supply.

Additionally, carefully placed ventilation holes in the frame sides, rear, and door guarantees that your DAs will run cooler. Our universal power supply accommodates all world standards.

The optional Frame Support Bracket supports the rear of rack frames that can be heavy from the weight and stress of cables. For mobile applications, the Card Retaining Bracket is available to maintain proper circuit board connection at all times.

VFR-7214 (1RU)



VFR-7210 (2RU)



Features:

Leitch Compatible

- High-efficiency power supplies are cooler running
- Power switch and fuse are accessible from front of rack frame
- Sufficient power for high current third party boards
- 8 outputs per amplifier
- Aluminum construction for increased heat dissipation
- Removable frame door for accessibility
- Redundant power supply available for the VFR-7210 frame
- Separate power cord for redundant power supply on the VFR-7210
- PowerLock cord retainer mechanism guards against accidental power loss
- Universal power supply PS-7103 (85-250V)
- Optional extender module for servicing
- Frame Support Bracket available to anchor rear of frames
- Optional Card Retaining Bracket for mobile installations
- 5-year transferable warranty
- VFR-7214 / VFR-7210 accept Ross and Leitch modules

Ordering Information:

Standard Equipment

VFR-7214	Video DA Mounting Frame & Power Supply (PS-7103) (1RU, 4 Card Slots)
VFR-7210	Video DA Mounting Frame & Power Supply (PS-7103) (2RU, 10 Card Slots)

Optional Equipment

PS-7103	Universal Power Supply (85-250V)
EXT-7200	Extender Board
FSB-7110	Frame Rear Support Brackets
CRB-7110	Card Retaining Bracket



VFR-7514 (1RU)



VFR-7510 (2RU)

1RU and 2RU Video DA Mounting Frames

The VFR-7514 Video DA Mounting Frame accommodates up to four Ross 7500 series or GVG 8500/8800 series DAs in one rack unit.
The VFR-7510 Video DA Mounting Frame accommodates up to ten Ross 7500 series or GVG 8500/8800 series DAs in two rack units.

The above frames employ rugged aluminum construction that provides superb heat dissipation as well as the highest quality connectors, and a durable finish. We have achieved a major improvement in reliability of the power supply and excellent video noise performance, even in the slots next to the power supply.

Additionally, carefully placed ventilation holes in the frame sides, rear, and door guarantees that your DAs will run cooler. Our universal power supply accommodates all world standards.

The optional Frame Support Bracket supports the rear of rack frames that can be heavy from the weight and stress of cables. For mobile applications, the Card Retaining Bracket is available to maintain proper circuit board connection at all times.

VFR-7514 (1RU)



VFR-7510 (2RU)



Features:

GVG Compatible

- High-efficiency power supplies are cooler running
- Power switch and fuse are accessible from front of rack frame
- Sufficient power for high current third party boards
- 8 outputs per amplifier
- Aluminum construction for increased heat dissipation
- Removable frame door for accessibility
- Redundant power supply available for the VFR-7510 frame
- Separate power cord for redundant power supply on the VFR-7510
- PowerLock cord retainer mechanism guards against accidental power loss
- Universal power supply PS-7103 (85-250V)
- Optional extender module for servicing
- Frame Support Bracket available to anchor rear of frames
- Optional Card Retaining Bracket for mobile installations
- 5-year transferable warranty
- VFR-7514 / VFR-7510 accept Ross and GVG modules

Ordering Information:

Standard Equipment

VFR-7514	Video DA Mounting Frame & Power Supply (PS-7103) (1RU, 4 Card Slots)
VFR-7510	Video DA Mounting Frame & Power Supply (PS-7103) (2RU, 10 Card Slots)

Optional Equipment

PS-7103	Universal Power Supply (85-250V)
EXT-7511	Extender Board
FSB-7110	Frame Rear Support Brackets
CRB-7110	Card Retaining Bracket



TruckAMP Remote-Controlled Video Equalizing Amplifier

Quick and easy set up of the incoming lines to a mobile truck.

Remote controls for Gain and Equalization can be located in any convenient location. For example, using the handy Remote Panel, the controls for several TruckAMPs can be mounted right above the incoming jackfield for fast no-confusion adjustment.

The VTA-7000 incorporates easyFLAT technology. Please see page 5 for description.

The remote gain control provides a small gain trim for level setting. But, if you hit a difficult feed, just pull the Gain knob and you'll get a big +/-6 dB range!

We know that mobile conditions are often difficult, so the TruckAMP rejects a whopping 11 volts of ground loop hum.

The TruckAMP also works well on the truck output to deliver an equalized signal to the microwave, Telco, etc. It has applications in the studio too.

Using the TruckAMP is as simple as turning 2 knobs.
First, set the source to send 75% bars or Pulse & Bar signal. If neither are available, use sync and burst.



Gain
Turn the Gain knob to get 100 IRE units on the white bar, or for correct sync level.

The Gain knob has two settings. The normal range is +/- 0.5 dB when the knob is in the "in" position. This gives a gain trim for normal feeds. When a larger range is needed for non-standard feeds, just pull the knob to the "out" position for a +/- 6 dB range.

Equalization
Turn the Equalize knob until the color bar chroma level matches the top of the white bar. If using Pulse & Bar, flatten the bottom of the 12T pulse. Otherwise, just set burst amplitude to 40 IRE units.

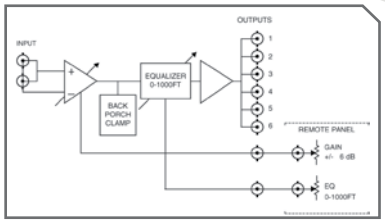
For extra convenience, install the remote control rack panel above the incoming feed jackfield or near the technical monitoring position.

Features:

Leitch Compatible

- Remote control of Gain and Equalization
- 6 outputs
- Precision equalization of up to 305m (1,000 ft.) of 8281 or equivalent coax cable
- easyFLAT one control adaptive equalizer for fast accurate adjustment
- Two gain ranges: +/- 0.5 dB trim and +/- 6 dB for non-standard feeds
- Calibrated remote control modules
- Remote panel mounts 22 remote modules
- Local control jumper-selectable if remote control not required
- Back porch clamping -- speed jumper-selectable
- Superb stability of frequency response and color timing
- Outstanding ground loop rejection of up to 11 volts of hum
- Excellent isolation between outputs
- Easy to install and use
- 5-year transferable warranty
- VTA-7000 fits Ross 7000 series and Leitch 680 series frames

Functional Block Diagram





Video Equalizing Amplifier with Clamping

An 8 output precision equalization amplifier which can equalize up to 305m (1,000 ft.) of cable to an extremely high accuracy.

The VEA-7001A equalizes up to 305m (1,000 ft.) of cable to an extremely high level of accuracy. The VEA-7001A is a Universal Equalizing Amplifier, with built-in jumper-selectable support for Belden 8281, 1694 and 1505 cable types. The VEA-7502 equalizes for a single cable type and can be ordered for Belden 8281 cable types.

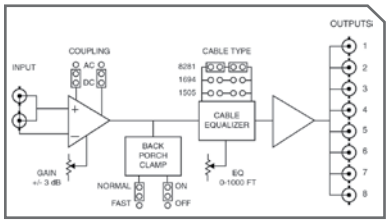
The VEA-7502 incorporates easyFLAT technology. Please see page 5 for description.

Back porch clamping for the VEA-7001A and sync-tip restoration for the VEA-7502 is provided to assist in the removal of hum or other signal disturbances. Two clamping speeds as well as DC coupling are jumper-selectable for the 7001A. A differential input gives excellent ground loop rejection.

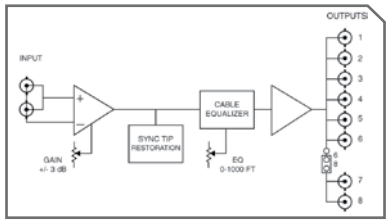
Temperature drift effects are almost non-existent due to the use of the latest in analog ASICs combined with meticulous product engineering.

The power to each card is individually fused to prevent failure of any one card from affecting the rest of the cards in the frame.

VEA-7001A Functional Block Diagram



VEA-7502 Functional Block Diagram



Features:

Leitch Compatible
GVG Compatible

- Precision equalization of up to 305m (1,000 ft.) of coax cable
- 8 outputs (6 output operation selectable for the VEA-7502)
- The VEA-7001A supports 8281, 1694A and 1505A cable in a single DA
- Easy to use, one control adaptive equalizer for fast installation
- Back porch clamping (VEA-7001A)
- Sync Tip Restoration (VEA-7502)
- Clamping speed jumper-selectable
- Delay matched for precise interchangeability
- Delay adjustable if required
- Superb stability of frequency response and color timing
- Outstanding ground loop hum rejection
- Excellent isolation between outputs
- Power to each card is individually fused
- 5-year transferable warranty
- VEA-7001A is an interchangeable replacement to the Leitch VEA-681 and VEA-684
- VEA-7001A fits Ross 7000 series and Leitch 680 series frames
- VEA-7502 is an alternative to the GVG 8502/8802
- VEA-7502 fits Ross 7500 series and GVG 8500/8800/8900 series frames



Video Equalizing Amplifier

Remarkable value and excellent performance in a basic equalizing amplifier for video.

The VEA-7007A is an economical equalizing amplifier well suited to video distribution where the source signal is of good quality and does not require clamping correction.

The amplifier has eight outputs and provides cable equalization for up to 305m (1,000 ft.) of cable. The VEA-7007A is a Universal Equalizing Amplifier, with built-in jumper-selectable support for Belden 8281, 1694 and 1505 cable types.

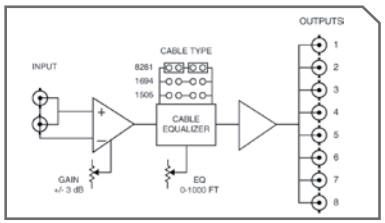
The amplifier eliminates normal distribution problems such as cable high-frequency loss and ground loop hum. Because the amplifier is DC coupled, clamping is not required, thus minimizing signal distortion. This enables it to deliver eight precise copies of the original signal.

Features:

Leitch Compatible

- Economical video distribution
- 8 outputs
- Cable equalization to 305m (1,000 ft.)
- Supports 8281, 1694A and 1505A cable in a single DA
- DC coupled for minimum distortion
- Excellent ground loop hum rejection
- Very stable over a wide temperature range
- Cards are individually fused
- 5-year transferable warranty
- VEA-7007A is an alternative to the Leitch VEA-683

Functional Block Diagram





Video Distribution Amplifier

An 8 output, economical, general purpose distribution amplifier with excellent specifications.

The VDA-7013A and VDA-7501 may be used in any application where cable equalization is not required.

The differential input ensures excellent system performance by virtually eliminating common-mode ground loop hum.

The high output capacity of the VDA-7013A and VDA-7501 makes it a good choice for subcarrier distribution purposes.

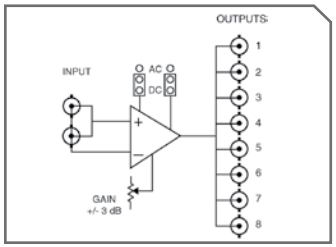
Temperature drift effects are non-existent thanks to the use of the latest in analog ASICs combined with meticulous product engineering. The power to each card is individually fused to prevent failure of any one card from affecting the rest of the cards in the frame.

Features:

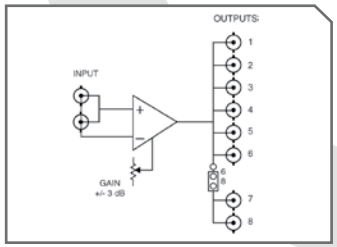
Leitch Compatible
GVG Compatible

- 8 outputs
- Superb stability of frequency response and color timing
- Excellent isolation between outputs
- Differential input
- Power to each card is individually fused
- Superb technical specifications
- 5-year transferable warranty
- VDA-7013A is an alternative to the Leitch VDA-682 and VDA-683
- VDA-7013A fits Ross 7000 series and Leitch 680 series frames
- VDA-7501 is an alternative to the GVG 8501/8801
- VDA-7501 fits Ross 7500 series and GVG 8500/8800/8900 series frames

VDA-7013A Functional Block Diagram



VDA-7501 Functional Block Diagram





Utility Distribution Amplifier

A very economical, general purpose amplifier for use in the distribution of video, subcarrier, or pulse signals.

The UDA-7005A may be used in any application where equalization and a differential input are not required.

The use of new generation integrated circuits and innovative engineering has resulted in excellent performance combined with economy. The power to each card is individually fused to prevent failure of any one card from affecting the rest of the cards in the frame.

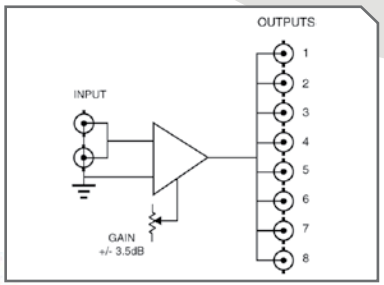
The exceptionally high output capability of the UDA-7005A also enables them to be used for the distribution of either 4 volt or 2 volt pulses.

Features:

Leitch Compatible

- 8 outputs
- Gain range of ±3 dB
- Economical cost
- Low distortion
- Excellent technical specifications
- 5-year transferable warranty
- UDA-7005A is an alternate to the Leitch UDA-683
- UDA-7005A fits Ross 7000 series and Leitch 680 series frames

Functional Block Diagram



VDL-7014



Video Delay Amplifier

A convenient, compact, and high-quality way to delay video signals so that system timing can be maintained.

In addition to being used in video paths, the VDL-7014 can be used to delay timing reference signals such as subcarrier or color black.

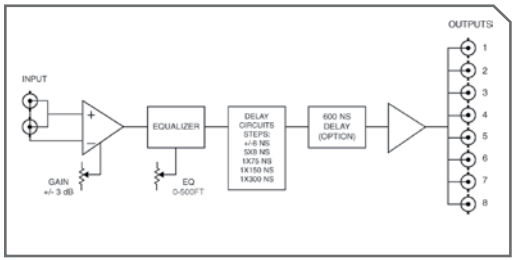
Frequency response over the whole delay range has been considerably improved by using active delay response equalization stages rather than passively equalized delay lines. Coarse delay is set with four jumper plugs. The total delay obtainable with the basic amplifier is 635 ns. Optional module VDM-7504 which attaches to the main amplifier board provides an additional 600 ns. Fine delay is continuously adjustable over +/- 6 ns. The differential input ensures excellent system performance by virtually eliminating common-mode ground loop hum. The cable equalizer will be very useful in many system situations as it compensates fully for the frequency response loss of up to 150m (500 ft.) of Belden 8281 cable. The amplifier occupies a single slot in a Ross or Leitch frame.

Features:

Leitch Compatible

- 8 outputs
- Delay continuously adjustable from 30 to 635 ns
- Optional 600 ns module increases total delay to 1.24ms
- Differential input eliminates ground loop hum
- Cable equalizer for 150m (500 ft.) of 8281 cable
- Excellent performance
- Power to each card is individually fused
- 5-year transferable warranty
- VDL-7014 is an alternative to the Leitch VPD-683-D
- VDL-7014 fits Ross 7000 series and Leitch 680 series frames

Functional Block Diagram



7000 Series RossGear

V Analog Video

RossGear: Analog Video - page 5
> The most highly respected line of video distribution products available.

A Analog Audio

RossGear: Analog Audio - page 15
> A broad line of analog audio distribution and processing products.

AV Analog Audio / Video

RossGear: Analog Audio / Video - page 25
> The easiest way to mix analog audio and video products in a cost-effective frame.

Analog Audio

Page

AFR-7814C / AFR-7812C 16
Audio DA Mounting Frames

AFR-7574C / AFR-7550C 17
Audio DA Mounting Frames

ADA-7801 / ADA-7551 18
Audio Distribution Amplifier

ADA-7802 / ADA-7554 19
Stereo / Mono Audio Distribution Amplifier

ADA-7555 20
Stereo / Mono Distribution Amplifier w/ Separate Output Level Controls

PAA-7803 21
Programmable Audio Distribution Amplifier

RSA-7806 22
Remote Gain Stereo Amplifier

TDA-7891 23
Timecode Distribution Amplifier



AFR-7814C (1RU)



AFR-7812C (2RU)

1RU and 2RU Audio DA Mounting Frames

The AFR-7814C Audio DA Mounting Frame accommodates up to four Ross 7800 series or Leitch 880 series DAs in one rack unit.
The AFR-7812C Audio DA Mounting Frame accommodates up to twelve Ross 7800 series or Leitch 880 series DAs in two rack units.

The above frames employ rugged aluminum construction that provides superb heat dissipation. Our unique design incorporates a shelf located on the rear of the frame that provides a means of keeping cabling uncluttered and orderly. It also prevents unnecessary stress which is usually placed on cables and connectors. Our universal power supply accommodates all world standards.

The optional Frame Support Bracket supports the rear of rack frames that can be heavy from the weight and stress of cables. For mobile applications, the Card Retaining Bracket is available to maintain proper circuit board connection at all times.

AFR-7814C (1RU)



AFR-7812C (2RU)





Rear Cable Shelf for neat installations

Rear Frame Plug-on Connector



Features:

Leitch Compatible

- Easy to install pluggable rear connectors
- Rear shelf provides a means of keeping cabling uncluttered and orderly
- Aluminum construction for increased heat dissipation
- Removable frame door for accessibility
- Optional extender module for servicing
- Power switch and fuse are accessible from front of the rack frame
- PowerLock cord retainer mechanism guards against accidental power loss
- Universal power supply accommodates all world standards (85-250 volts)
- High-capacity power supply is cooler running
- Frame Support Bracket available to anchor rear of rack frames
- Optional Card Retaining Bracket for mobile installations
- Separate power cords for each supply for power redundancy
- 5-year transferable warranty

Ordering Information:

Standard Equipment

AFR-7814C	Audio DA Mounting Frame & Power Supply (PS-7813) (1RU, 4 Card Slots)
AFR-7812C	Audio DA Mounting Frame & Power Supply (PS-7813) (2RU, 12 Card Slots)

Optional Equipment

PS-7813	Universal Power Supply (85-250V)
EXT-7200	Extender Board
FSB-7110	Frame Rear Support Brackets
CRB-7110	Card Retaining Bracket



AFR-7574C (1RU)



AFR-7550C (2RU)

1RU and 2RU Audio DA Mounting Frames

The AFR-7574C Audio DA Mounting Frame accommodates up to four Ross 7550 series or GVG 8550 series DAs in one rack unit.
The AFR-7550C Audio DA Mounting Frame accommodates up to ten Ross 7550 series or GVG 8550 series DAs in two rack units.

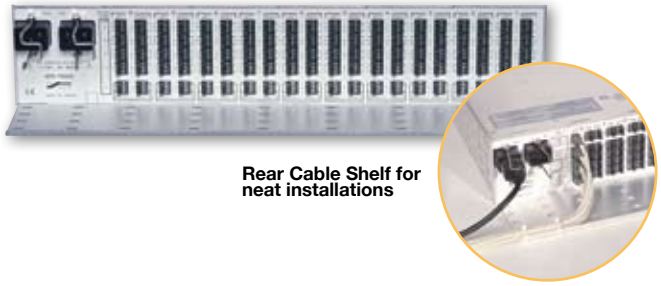
The above frames employ rugged aluminum construction that provides superb heat dissipation. Our unique design incorporates a shelf located on the rear of the frame that provides a means of keeping cabling uncluttered and orderly. It also prevents unnecessary stress which is usually placed on cables and connectors. Our universal power supply accommodates all world standards.

The optional Frame Support Bracket supports the rear of rack frames that can be heavy from the weight and stress of cables. For mobile applications, the Card Retaining Bracket is available to maintain proper circuit board connection at all times.

AFR-7574C (1RU)



AFR-7550C (2RU)



Rear Cable Shelf for neat installations

Rear Frame Plug-on Connector



Features:

GVG Compatible

- Easy to install pluggable rear connectors
- Rear shelf provides a means of keeping cabling uncluttered and orderly
- Aluminum construction for increased heat dissipation
- Removable frame door for accessibility
- Optional extender module for servicing
- Power switch and fuse are accessible from front of the rack frame
- PowerLock cord retainer mechanism guards against accidental power loss
- Universal power supply accommodates all world standards (85-250 volts)
- High-capacity power supply is cooler running
- Frame Support Bracket available to anchor rear of rack frames
- Optional Card Retaining Bracket for mobile installations
- Separate power cords for each supply for power redundancy
- 5-year transferable warranty

Ordering Information:

Standard Equipment

AFR-7574C	Audio DA Mounting Frame & Power Supply (PS-7558) (1RU, 4 Card Slots)
AFR-7550C	Audio DA Mounting Frame & Power Supply (PS-7558) (2RU, 10 Card Slots)

Optional Equipment

PS-7558	Universal Power Supply (85-250V)
EXT-7511	Extender Board
FSB-7110	Frame Rear Support Brackets
CRB-7110	Card Retaining Bracket



Audio Distribution Amplifier

An 8 output audio distribution amplifier with the highest level of signal transparency achieved in audio distribution.

The ADA-7801 and ADA-7551 provide virtually flawless performance in any television, radio or recording studio application.

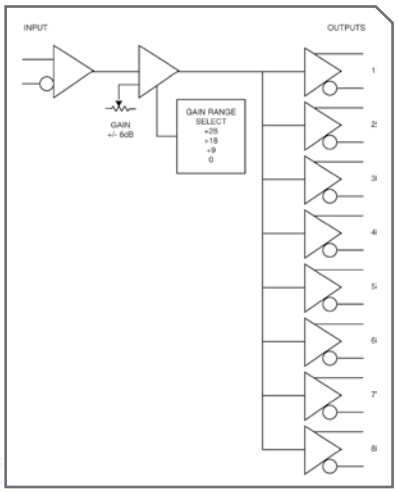
Two amplifiers can be used to obtain 8 outputs of stereo audio.
Special design precautions have been taken to ensure that the amplifier is perfectly stable under all load and rack wiring conditions. The amplifier also provides exceptionally good rejection of ground loop hum and other common-mode interference. Gain of up to +34 dB is available, jumper-selectable.

Features:

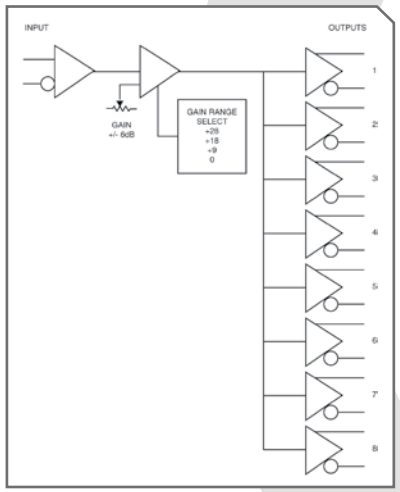
Leitch Compatible
GVG Compatible

- 8 outputs
- Extremely flat response
- Very low distortion
- Excellent common-mode rejection
- Low noise
- Output test point
- Wide gain range
- 5-year transferable warranty
- ADA-7801 is an interchangeable alternative to the Leitch AMD-880 and ADA-881
- ADA-7801 fits Ross 7800 series and Leitch 880 series frames
- ADA-7551 is an alternative to the GVG 8910ADA-M and 8851
- ADA-7551 fits Ross 7550 series and GVG 8550 series frames

ADA-7801 Functional Block Diagram



ADA-7551 Functional Block Diagram





Stereo / Mono Audio Distribution Amplifier

2 independent 4 output amplifiers on a single card. Ideal for applications where minimum rack space is important and 4 outputs are sufficient.

The ADA-7802 and ADA-7554 achieve the highest level of signal transparency obtained in audio distribution. It provides virtually flawless performance in any television, radio or recording studio application. A jumper plug is provided to allow both channels to be fed from the A input, thus making a single mono amplifier with 8 outputs.

A special version of the ADA-7802, model ADA-7802V (page 27), has been developed to operate on the lower power voltages available in Audio / Video Frames. The ADA-7554 fits into either Ross 7550 series or GVG 8550 series frames (3 outputs per channel in GVG frames). The power to each card is individually fused to prevent failure of any one card from affecting the rest of the cards in the frame.

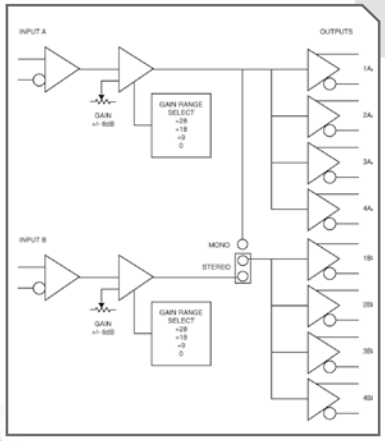
Design precautions have been taken to ensure that these amplifiers are perfectly stable under all load and rack wiring conditions. The amplifiers also provide exceptionally good rejection of ground loop hum and other common-mode interference. Gain of up to +34 dB is available, jumper-selectable.

Features:

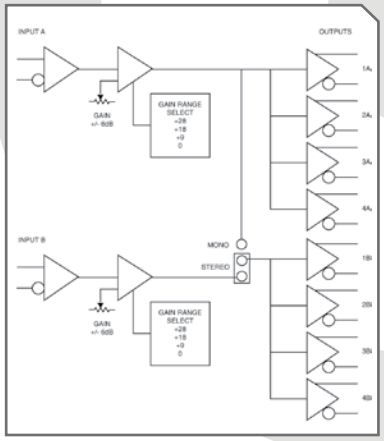
Leitch Compatible
GVG Compatible

- Dual amplifiers, each with 4 outputs
- Stereo or Mono modes jumper-selectable
- Extremely flat response
- Very low distortion
- Excellent common-mode rejection
- Low noise
- Output test points
- Wide gain range
- Low power consumption for cool, reliable operation
- 5-year transferable warranty
- ADA-7802 is an interchangeable alternative to the Leitch ASD-880 and ADA-883
- ADA-7802 fits Ross 7800 series and Leitch 880 series frames
- ADA-7554 is an alternative to the GVG 8900ADA-ST and 8561
- ADA-7554 fits Ross 7550 series and GVG 8550 series frames

ADA-7802(V) Functional Block Diagram



ADA-7554 Functional Block Diagram





Stereo / Mono Distribution Amplifier with Separate Output Level Controls

Ideal for situations where the distribution system must feed different signal levels to various pieces of equipment or output lines.

Each of the 8 outputs has a separate level control with a +/- 6 dB range. Two separate 4 output amplifiers are contained on a card for stereo use. A jumper plug provides a Mono mode in which all 8 outputs are fed from the Left input.

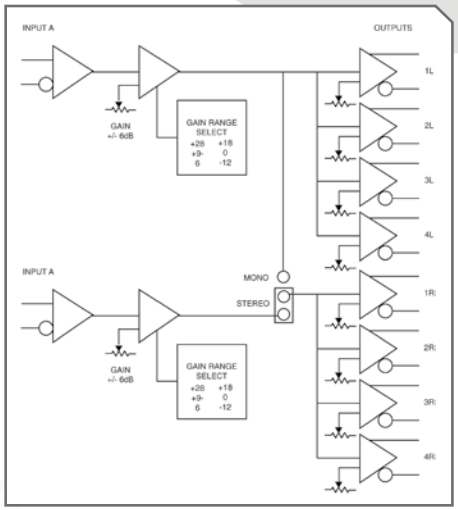
The Left and Right Amplifiers each have a master gain control with +/-6 dB range and a gain-setting jumper with positions from -12 dB to +28 dB to accommodate a wide range of input levels.

The amplifier has a high level of signal transparency and will provide virtually flawless performance in any television, radio, duplication or recording studio application.

This amplifier fits into either Ross 7550 series or GVG 8550 series frames (3 outputs per channel in GVG frames). The power to each card is individually fused to prevent failure of any one card from affecting the rest of the cards in the frame.

Special design precautions have been taken to ensure that the amplifier is perfectly stable under all load and rack wiring conditions. The amplifier also provides exceptionally good rejection of ground loop hum and other common-mode interference.

Functional Block Diagram



Features:

GVG Compatible

- Each output has a separate output level control
- Dual amplifiers, each with 4 outputs
- Mono mode provides 8 outputs
- Very low distortion
- Excellent common-mode rejection
- Wide gain range
- Low power consumption for cool, reliable operation
- 5-year transferable warranty
- Fits Ross 7550 series and GVG 8550 series frames



Programmable Audio Distribution Amplifier

Particularly useful in stereo systems where a mono signal must also be created and distributed.

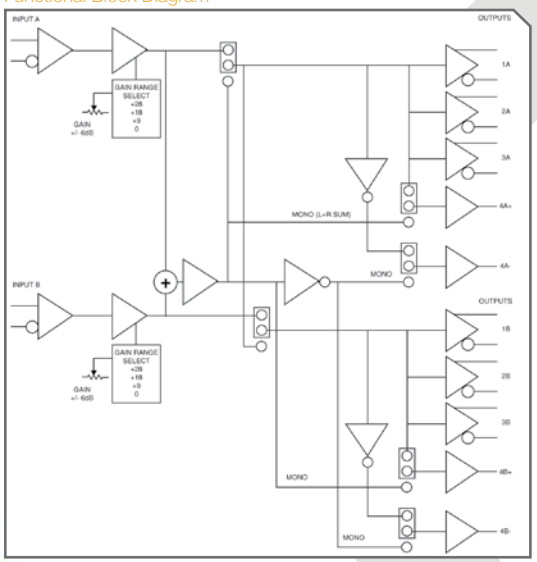
The PAA-7803 will provide virtually flawless performance in any television, radio or recording studio application.

Available modes are:

- Stereo Amplifier, 4 outputs per channel
- Mono Amplifier, 8 outputs
- Stereo Amplifier, 3 outputs per channel plus 2 summed (mono) outputs
- Summing Amplifier, 8 outputs
- Mono Amplifier, 6 outputs plus 2 summed outputs

Special design precautions have been taken to ensure that the amplifier is perfectly stable under all load and rack wiring conditions. The amplifier also provides exceptionally good rejection of ground loop hum and other common-mode interference. Gain of up to +34 dB is available, jumper-selectable.

Functional Block Diagram



Features:

Leitch Compatible

- User configurable - several modes
- Summing amplifier
- Extremely flat response
- Very low distortion
- Excellent common-mode rejection
- Low noise
- Output test points
- Wide gain range
- 5-year transferable warranty
- An alternative to the Leitch APD-880
- Fits Ross 7800 series and Leitch 880 series frames



Remote Gain Stereo Amplifier

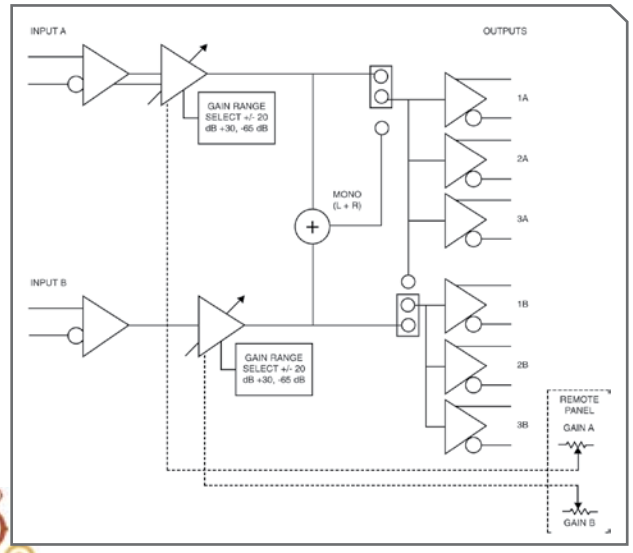
A dual-channel audio distribution amplifier for installations where remote control of audio gain is required.

The RSA-7806 can easily be configured to suit a wide variety of situations.

Modes available:
- Stereo amplifier, 3 outputs each, 2 remote gain controls (normal mode)
- Mono amplifier, 6 outputs, 1 remote gain control
- Audio mixer, 6 outputs, 2 remote gain controls
- Mono amplifier, 3 outputs plus 3 mixer outputs, 2 remote gain controls

The RSA-7806 provides an exceptionally high degree of signal transparency. It will provide virtually flawless performance in any television, radio or recording studio application. Special design precautions have been taken to ensure that the amplifier is perfectly stable under all load and rack wiring conditions. The amplifier also provides exceptionally good rejection of ground loop hum and other common-mode interference.

Functional Block Diagram



Features:

Leitch Compatible

- Remote control of gain
- +/-20 dB and +30 to -65 dB gain ranges
- Two independent amplifiers
- Summing mode
- Extremely flat response
- 3 outputs per channel
- Excellent common-mode rejection
- Very low distortion
- Output test points
- 5-year transferable warranty
- An alternative to the Leitch ARG-880 (mono only)
- Fits Ross 7800 series and Leitch 880 series frames



The companion remote panel, model ARP-7805 sold separately, provides 12 single-channel controls on a one rack unit panel. Alternatively, the amplifier may be easily controlled by a customer-supplied 10K potentiometer. Normal control range is +/-20 dB. A wide range of +30 to -65 dB is jumper-selectable. Tracking of the gain control between amplifiers is excellent, an important consideration if the application makes it desirable to operate two amplifiers from one remote control. The amplifier also has local gain controls which can be easily enabled.

TDA-7891



Timecode Distribution Amplifier

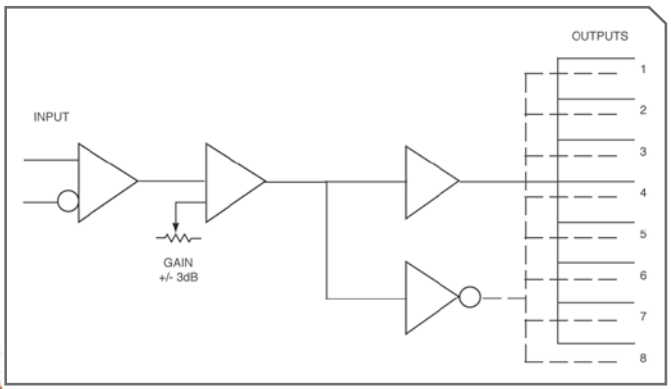
A flexible, high quality card for your timecode distribution requirements.

The TDA-7891 Timecode Distribution Amplifier is an excellent solution for distributing timecode signals with virtually no loss of quality. The TDA-7891 Timecode Distribution Amplifier is a high input impedance amplifier with 8 150 ohm outputs for use in AFR-7800 series audio frames.

Features:

- AC coupled differential input
- High impedance input
- 8 differential outputs
- Flat frequency response to 20MHz
- Wide bandwidth to accommodate signals from tape decks in shuttle mode
- Short signal delay
- 5-year transferable warranty
- Fits Ross AFR-7812C and AFR-7814C audio frames

Functional Block Diagram



7000 Series RossGear

V Analog Video

RossGear: Analog Video - page 5
> The most highly respected line of video distribution products available.

A Analog Audio

RossGear: Analog Audio - page 15
> A broad line of analog audio distribution and processing products.

AV Analog Audio / Video

RossGear: Analog Audio / Video - page 25
> The easiest way to mix analog audio and video products in a cost-effective frame.

Analog Audio / Video

Page

AVFR-7854C / AVFR-7855C 26
Audio / Video DA Mounting Frames

ADA-7802V 27
Stereo / Mono Audio Distribution Amplifier



AVFR-7854C (1RU)



AVFR-7855C (2RU)

1RU and 2RU Audio / Video DA Mounting Frames

The AVFR-7854C Audio / Video DA Mounting Frame accommodates up to two 7802V Audio Distribution Amplifiers as well as up to two Ross 7000 series video distribution amplifiers. The AVFR-7855C Audio / Video DA Mounting Frame accommodates up to five 7802V Audio Distribution Amplifiers as well as up to five Ross 7000 series video distribution amplifiers.

The above frames are perfect for compact installations where space is at a premium. Each frame employs rugged aluminum construction that provides superb heat dissipation. The AVFR-7855C design incorporates a shelf located on the rear of the frame that provides a means of keeping cabling uncluttered and orderly. It also prevents unnecessary stress which is placed on audio cables and connectors. Our universal power supply accommodates all world standards.

The optional Frame Support Bracket supports the rear of rack frames that can be heavy from the weight and stress of cables. For mobile applications, the Card Retaining Bracket is available to maintain proper circuit board connection at all times.

AVFR-7854C (1RU)



AVFR-7855C (2RU)



Rear Frame Plug-on Connector



Features:

Leitch Compatible

- Rear shelf provides a means of keeping cabling uncluttered and orderly
- Aluminum construction for increased heat dissipation
- Removable frame door for accessibility
- Optional extender module for servicing
- Power switch and fuse are accessible from front of the rack frame
- PowerLock cord retainer mechanism guards against accidental power loss
- Universal power supply accommodates all world standards (85-250 volts)
- High-capacity power supply is cooler running
- Support Bracket available to anchor rear of rack frames
- Optional Card Retaining Bracket for mobile installations
- Separate cords to each power supply for redundancy
- Handles both audio & video distribution in a 2RU frame
- 5-year transferable warranty
- AVFR-7854C / AVFR-7855C accepts Ross and Leitch video modules
- Use Ross ADA-7802V for audio distribution in AVFR-7854C / AVFR-7855C

Ordering Information:

Standard Equipment

AVFR-7854C	Audio / Video DA Mounting Frame & Power Supply (PS-7103) (1RU, 4 Card Slots)
AVFR-7855C	Audio / Video DA Mounting Frame & Power Supply (PS-7103) (2RU, 10 Card Slots)

Optional Equipment

PS-7103	Universal Power Supply (85-250V)
EXT-7200	Extender Board
FSB-7110	Frame Rear Support Brackets
CRB-7110	Card Retaining Bracket

ADA-7802V



Stereo / Mono Audio Distribution Amplifier

Designed for use in the AVFR series Audio / Video frames.
2 independent 4 output amplifiers on a single card.

The ADA-7802V achieves the highest level of signal transparency obtained in audio distribution. It provides virtually flawless performance in any television, radio or recording studio application.

A jumper plug is provided to allow both channels to be fed from the A input, thus making a single mono amplifier with 8 outputs.

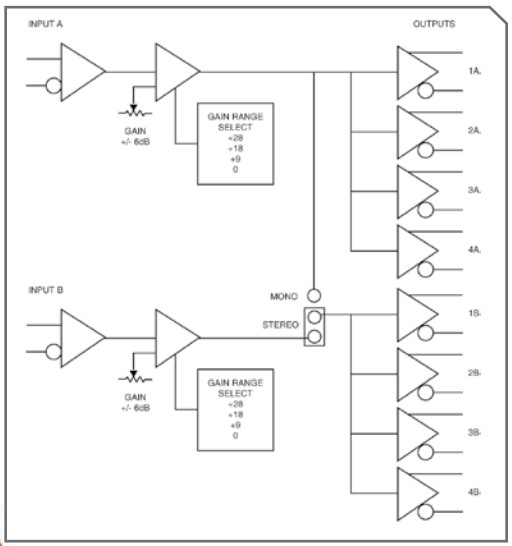
Design precautions have been taken to ensure that the amplifier is perfectly stable under all load and rack wiring conditions. The amplifier also provides exceptionally good rejection of ground loop hum and other common-mode interference. Gain of up to +34 dB is available, jumper-selectable.

NOTE: This amplifier is for use in the AVFR-7854C and AVFR-7855C frames only.

Features:

- Dual amplifiers, each with 4 outputs
- Stereo or Mono modes jumper-selectable
- Extremely flat response
- Very low distortion
- Excellent common-mode rejection
- Low noise
- Output test points
- Wide gain range
- 5-year transferable warranty
- Fits Ross AVFR-7854C and AVFR-7855C frames

Functional Block Diagram



7000 Series RossGear

AUDIO AND VIDEO FRAMES & ACCESSORIES

VFR-7214	1RU Analog Video Products Mounting Frame	page 6
VFR-7210	2RU Analog Video Products Mounting Frame	page 6
VFR-7514	1RU Analog Video Products Mounting Frame	page 7
VFR-7510	2RU Analog Video Products Mounting Frame	page 7
AFR-7814C	2RU Analog Audio Products Mounting Frame	page 16
AFR-7812C	2RU Analog Audio Products Mounting Frame	page 16
AFR-7574C	1RU Analog Audio Products Mounting Frame	page 17
AFR-7550C	2RU Analog Audio Products Mounting Frame	page 17
AVFR-7854C	1RU Analog Audio / Video Products Mounting Frame	page 26
AVFR-7855C	2RU Analog Audio / Video Products Mounting Frame	page 26

Analog Video

VIDEO DISTRIBUTION

VTA-7000	TruckAMP Remote-Controlled Video Equalizing Amplifier	page 8
VEA-7001A	Video Equalizing Amplifier with Clamping	page 9
VEA-7502	Video Equalizing Amplifier with Clamping	page 9
VEA-7007A	Video Equalizing Amplifier	page 10
VDA-7013A	Video Distribution Amplifier	page 11
VDA-7501	Video Distribution Amplifier	page 11
UDA-7005A	Utility Distribution Amplifier	page 12
VDL-7014	Video Delay Amplifier	page 13

Analog Audio

AUDIO DISTRIBUTION & MONITORING

ADA-7801	Audio Distribution Amplifier	page 18
ADA-7551	Audio Distribution Amplifier	page 18
ADA-7802	Stereo / Mono Audio Distribution Amplifier	page 19
ADA-7554	Stereo / Mono Audio Distribution Amplifier	page 19
ADA-7555	Stereo / Mono Distribution Amplifier w/ Separate Output Level Controls	page 20
PAA-7803	Programmable Audio Distribution Amplifier	page 21
RSA-7806	Remote Gain Stereo Amplifier	page 22
TDA-7891	Timecode Distribution Amplifier	page 23
ADA-7802V	Stereo / Mono Audio Distribution Amplifier	page 27

Leitch Compatible
GVG Compatible
fits Ross Frames



> The RossGear 7000 Series product line offers a wide range of analog products to cover all your A/V distribution needs. Housed in modular 1RU and 2RU frames, all modules are hot-pluggable and are feature packed with the industry's highest performance specifications.

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openGear, RossGear, and GearLite terminal equipment products are built to last. They're tough and ready to handle years of demanding, continuous use. Which is why Ross' warranty policy is one of the best in the industry - Ross Video stands behind their products.

Ross offers 5-year transferable warranties on our openGear product line. 3 and 5-year transferable warranties on our RossGear product line and 3-year warranties on our GearLite product line.

Ross Video's Technical Support Department will continue to provide advice on any product manufactured by Ross Video, extending beyond the warranty period without charge, for the life of the equipment.

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