

# **READ THIS FIRST!**

## **Save Time and Avoid Damage!**

We realize that you will want to start installing your new equipment right away. But, you will save time and avoid costly damage by taking a few moments to review the following helpful information before you proceed.

### **1. Installation and Cable Connections**

Before turning the power on, consult the "Installation" section of this manual to obtain specific advice about cable connections, switch settings and jumper configurations.

### **2. Operation**

See the "Operation" section for proper use of your new equipment.

### **3. Calibration**

All Ross Video Terminal Equipment is factory calibrated. Adjustment of sealed calibration components or any repairs to this unit, are to be performed by an authorized Ross Video technician. Unauthorized repairs will void your Warranty.

### **In Case of Problems**

If you encounter any problems with the installation of this unit, please call our Customer Service Department at (613) 652-4886, 24 hours a day, 7 days a week.

Advice is available, without charge, for the life of this equipment, not just for the warranty period.

AFR-7574  
Audio Tray  
USER'S MANUAL

AFR-7574-01

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## AFR-7574 • Audio Tray – User Manual

- Ross Part Number: **AM-7574-01**
- Document Issue: **1**
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The information contained in this guide is subject to change without notice or obligation.

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## Introduction

The design of the mounting tray will more than satisfy the most demanding network considerations. The tray is visually attractive and incorporates advanced ventilation and cooling engineering. The mounting tray holds 4 modules and one (1) PS-7558 power supplies.

The tray door is completely removable to provide convenient access in any rack installation position. Pivot points are provided on the tray near the door bottom to make it easy to install the door. The door is designed to be placed on the pivots and then rotated until the latches click into position.

The tray uses a new, smaller connector block, which has more terminals than previously possible in the space available.

The use of the smaller connector block made it possible to increase the number of amplifier outputs to eight. The availability of eight output in turn made it possible to offer a dual four-output stereo Distribution Amplifier to fit the same tray.

## Features

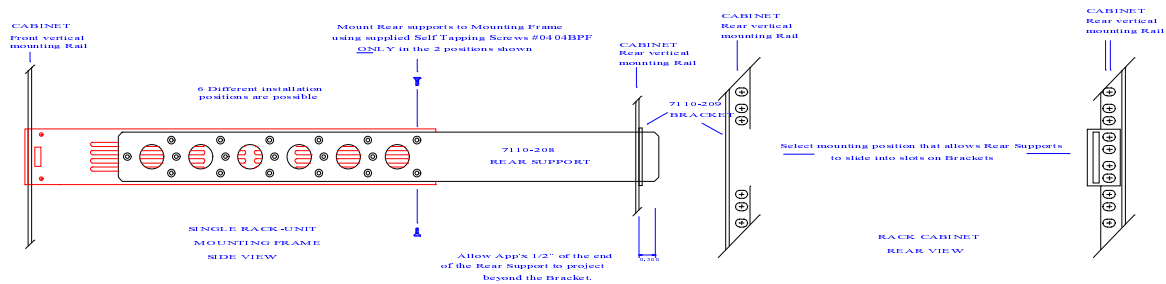
- Accommodates 4 amplifiers in 1 rack unit
- Aluminum construction for increased heat dissipation
- Removable frame door for accessibility
- Optional module extender for servicing
- Power switch and fuse is accessible from front of the tray
- *PowerLock* cord retainer mechanism guards against accidental power loss
- 5-year transferable warranty
- Ross frames also accept GVG\* analog audio products

## Installation

### 1. Mechanical

The tray mounts in the rack cabinet by means of four screws through the front mounting flanges. This should normally be sufficient to carry the load, including weight of cables. In some cases, (mobile trucks, etc.) it may be desirable to also support the rear of the tray. Rear support brackets (Ross part # FSB-7110) are available for a nominal cost.

To Install the support brackets:



\*GVG is a trademark of Tektronix Inc.

- A) The rear support bars can be attached to the Ross tray in six possible positions. See the illustration. Choose the position that suits the cabinet depth and will give approximately a 1/2 inch projection beyond the previously mounted bracket. Using four screws per bracket as shown in the illustration, attach both bars.
- B) Mount the Ross tray to the front rails of the rack cabinet using rack screws.
- C) At the rear of the cabinet, slide the bracket slots over the rear of the support bars and secure to the cabinet rear rails with rack screws.

### 2. Ventilation

This tray has been specially engineered to minimize internal heat buildup and thus improve module reliability. However, it is best to install a blank panel above and below the tray for improved air flow. In situations where this much rack space is not available, no more than two frames are to be stacked without a blank panel above and below the pair.

### 3. PCB Designation Label

A PCB Designation Label Sheet with adhesive backing has been inserted inside the back cover of each owner's manual.

To use, use scissors or a sharp knife to cut out two strips from the page. For all occupied tray slots write the amplifier type, signal source or function and amplifier number if applicable. Peel off the backing paper and stick the label to the tray according to the sketch on the label sheet. Please see the example illustrated below. (Please Note\*The template at the rear of this manual should be copied and kept on file in the event that the PCB Label insert is lost.)

**Specifications**

<b>Power Supplies</b>	Input Voltage 85-250V, 50/60 Hz
	Input Power 55VA max.
	Output Voltage $\pm 13.5V$
	Output Current 1.7A
	Output power 46 W
	Line Regulation 350mV change over full input range
	Output ripple < 60 mVpp
<i>For safety reasons, Ross power supplies do not fit into rack frames of other manufacturers.</i>	
<b>Rack Tray Mechanical</b>	Height 1 <sup>3</sup> / <sub>4</sub> " (44 mm)
	Width 19" (483mm)
	Depth 13" (330mm)
	Weight, average for all amplifiers installed: approx. 13 lbs. (5.9kg)
	For safety reasons, Ross power supplies do not fit into rack frames of other manufacturers.
<b>Environmental</b>	Temperature Equipment is designed to operate in ambient temperature ranges from 0° C to 50° C
	Humidity <95% non condensing

**Ordering Information**

VFR-7574	Video DA Tray (1 RU, Holds 4 amplifiers)
PS-7558	Universal Power Supply (85-250 volts)
EXT-7511	Extender Board
FSB-7110	Rear Support Brackets
CRB-7110	Card Retaining Bracket (for mobile installations)

Note: The video tray does not include the power supply. The tray requires one supply. An Owner's Manual is supplied with each product.

Bill of Materials  
TRAY, 1 R.U., ANALOG AUDIO

7574001-.01-

Item	QTY	Description	Part #	REF
1	5	NO VALUE,TEST POINT	-----	MP1,MP2,MP3,MP4,MP5
2	1	CONN,3P,PCB MNT,AC	311-023	J1
3	1	CONN,24P,PCB MNT,30P MOD	311-032	J6
4	4	CONN,2X25P,PCB MNT,PRESS FIT	311-036	J2,J3,J4,J5
5	8	CONN,16P,3.5MM,TERM STRIP,45DEG	311-040	J7,J8,J9,J10,J11,J12,J13, J14
6	1	1 R/U 4 CARD AUDIO MOTHER ----- PCB	7574-001-01	PCB
7	1	1 R/U 4 CARD AUDIO MOTHER ----- R PNL	7574F-002	REAR PANEL
8	1	RETAINER,LINE/CORD A/C	842-003	AC CLIP1
9	1	TERMINAL,SOLDER LUG #4	910-007	MP1 LUG
10	2	WASHER,FIBRE.1/8ID,5/16OD,1/16T	960-032	WASHER1,WASHER2
11	3	WIRE,18AWG,STRANDED CSA	970-017	MP1 WIRE,MP2 WIRE, MP3 WIRE

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## Ross Gear Terminal Equipment • Warranty and Repair Policy

This **Ross Gear Terminal Equipment** product is warranted to be free of any defect with respect to performance, quality, reliability and workmanship for a period of **FIVE (5)** years from the date of shipment from our factory.

In the event that your **Ross Gear** product proves to be defective in any way during this warranty period, we will gladly repair or replace this piece of equipment with a unit of equal or superior performance characteristics.

Should you find that this **Ross Gear** product has failed after your warranty period has expired, we will repair your defective piece of equipment for as long as suitable replacement components are available. You, the owner, will bear any labour and/or component costs incurred in the repair or refurbishment of said equipment, beyond the **FIVE (5)** year warranty period.

Should your **Ross Gear** product be of our **Digital Terminal Equipment** product line, a power supply, or carries any surface mount devices, proves to be defective, we would ask that your piece of equipment be repaired by an authorized **Ross Video Limited** factory representative. Any attempt to repair this product by anyone other than an authorized **Ross Video Limited** factory representative, will void your warranty.

If this is a manual for a **Ross Gear** product of our **Digital Terminal Equipment** product line, a power supply, or piece of equipment which carries surface mount devices, you will find it provides all pertinent information for the safe installation and operation of your Ross Gear product.

If this is a manual for a **Ross Gear** product from our **Analog Terminal Equipment** product line, you will find it provides all pertinent information for the safe installation and operation of your **Ross Gear** product. Included in this manual if this product does not carry any surface mount devices, you will also find schematics, bills of materials and layout drawings. These are provided for your convenience, should you find it necessary to perform discretionary field repair or modifications to your **Ross Gear** product.

**Ross Video Limited** reserves the right to assess any modifications or repairs made by you and decide whether they fall within warranty limitations, should you decide to return your **Ross Gear** product for repair.

In no event shall **Ross Video Limited** be liable for direct, indirect, special, incidental, or consequential damages (including loss of profits) incurred by the use of this product. Implied warranties are expressly limited to the duration of this warranty.

### **In Case of Problems:**

Should any problem arise with your **Ross Gear Terminal Equipment Product**, please contact our **Customer Service Department** at **613-652-4886**, 24 hours a day, 7 days a week.

A Return Material Authorization number (RMA) will be issued to you, as well as specific shipping instructions, should you wish our factory to repair your **Ross Gear** product. A temporary replacement, if required, will be made available for a nominal charge. Any shipping costs incurred, will be the responsibility of you, the customer. All products shipped to you from **Ross Video Limited**, will be shipped collect.

**Ross Gear Terminal Equipment** product advice is available without charge for the life of this equipment, not just the warranty period.