
ROSS VIDEO LIMITED

VFR-7214
Video DA Mounting Frame
1 R.U.

RossGear Terminal Equipment • Warranty and Repair Policy

This **RossGear 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 **RossGear** 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 **RossGear** 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 labor and/or component costs incurred in the repair or refurbishment of said equipment, beyond the **FIVE (5)** year warranty period.

Should your **RossGear** product be of our **Digital Terminal Equipment** product line, a power supply, or product with surface mount devices, and it proves to be defective, we would ask that an authorized **Ross Video Limited** factory representative repair the product. 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 **RossGear** product of our **Digital Terminal Equipment** product line, a power supply, or piece of equipment that carries surface mount devices, you will find it provides all pertinent information for the safe installation and operation of your **RossGear** product.

If this is a manual for a **RossGear** product from our **Analog Terminal Equipment** product line, you will find it provides all pertinent information for the safe installation and operation of your **RossGear** 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 **RossGear** 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 **RossGear** 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 **RossGear 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 **RossGear** 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.

RossGear Terminal Equipment product advice is available, without charge, for the life of this equipment.

Introduction

The VFR-7214 Video Products Frame accommodates up to four (4) Ross 7000 series Distribution Products and one (1) PS-7103 power supply. The frame employs rugged aluminum construction, which provides superb heat dissipation, as well as the highest quality connectors and a durable finish. Additionally, carefully placed ventilation holes in the rack frame, sides and door guarantees that your Distribution Products will run cooler than in competitive frames.

Features

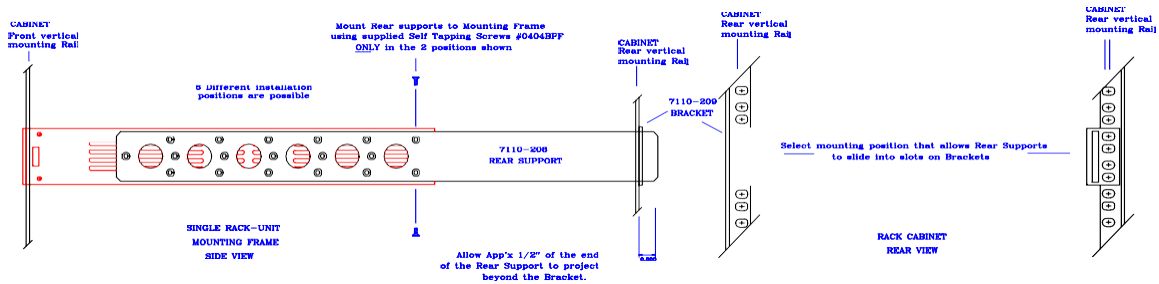
- Accommodates 4 amplifiers in 1 rack unit
- Aluminum construction for increased heat dissipation
- Removable frame door for accessibility
- Optional module extender for servicing
- Power switch and fuse is accessible from front of the rack frame
- *PowerLock* cord retainer mechanism guards against accidental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

Installation

1. Mechanical

The frame 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 frame. Rear support brackets (Ross part # FSB-7110) are available for a nominal cost.

To Install the support brackets:



A) The rear support bars can be attached to the Ross frame 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 screw per bracket as shown in the illustration, attach both bars.

B) Mount the Ross frame 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.

*Leitch is a trademark of Leitch Technology Corporation.

2. Ventilation

This frame 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 frame 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 frame 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 frame 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

Power Supplies	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
For safety reasons, Ross power supplies do not fit into rack frames of other manufacturers.	
Rack Frame Mechanical	Height $1\frac{3}{4}$ " (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.
Environmental	Temperature Equipment is designed to operate in ambient temperature ranges from 0° C to 50° C
	Humidity <95% non condensing

Ordering Information

VFR-7214	Video DA Mounting Frame (1 RU, Holds 4 amplifiers)
PS-7103	Power Supply (85-250 volts)
EXT-7200	Extender Board
FSB-7110	Rear Support Brackets

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

VFR-7214 Video DA Mounting Frame

Bill of Materials
FRAME, 2 R.U., ANALOG VIDEO

7214010-.01-

Item	QTY	Description	Part #
1	1	Label, Warning	7114-186-01
2	1	Label, EEC	7114-187-01
3	2	Side	7114-201-02
4	1	Door	7114-202-03
5	1	Top	7114-203-02
6	1	Bottom	7114-204-03
7	4	Spacer	7114-206-01
8	1	Shield Plate	7114-207-01
9	1	Guide Mounting Bar	7114-212-01
10	1	Label, Power Supply Type (Maroon)	7210-084-01
11	1	Frame Mother PCB Assembly	7214A-001
12	2	Latch, Slide	312-063
13	10	Guide, PCB, 9"	398-009
14	1	Lens, Reflective, Clear	466-017
15	1	Label, Serial #	613-016-01
16	2	Nut, Hex, Keps, 4-40	650-005
17	9	Eyelet, Brass, E39	843-008
18	12	Eyelet, Brass, E37	843-010
19	1	Screw, 4-40 x 3/8" Flat	850-008
20	32	Screw,U-cut, 4-40 x 1/4" Flat, Phillips	850-038
21	3	Screw, 4-40 x 3/16" Flat SS, Straight	850-059