

VFR-7514
Video Tray

VM-7514-01

Introduction

The VFR-7514 Video Products Tray accommodates up to four (4) Ross 7500 series Distribution Products and one (1) PS-7103 power supply. The tray 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 tray, sides and door guarantees that your Distribution Products will run cooler than in competitive frames.

Features

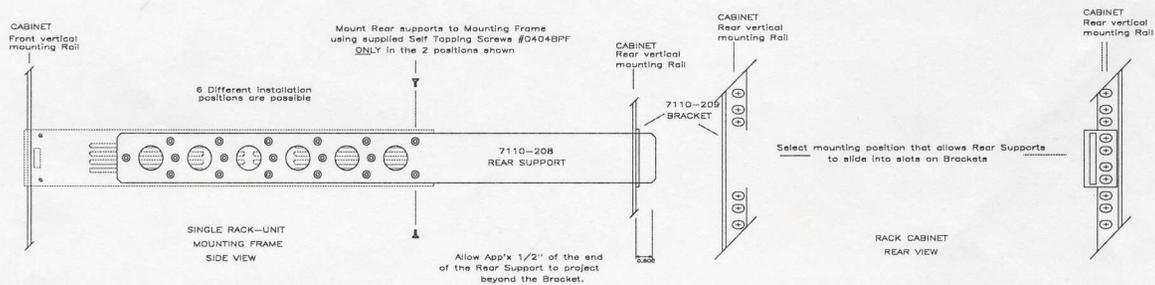
- Accommodates 4 amplifiers in 1 rack unit
- Aluminum construction for increased heat dissipation
- Removable tray door for accessibility
- Optional module extender for servicing
- Power switch and fuse is accessible from front of the rack tray
- *PowerLock* cord retainer mechanism guards against accidental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



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 screw 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.

*GVG is a trademark of Tektronix Inc.

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

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 Tray Mechanical	Height 1 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-7514	Video DA Tray (1 RU, Holds 4 amplifiers)
PS-7103	Power Supply (85-250 volts)
EXT-7200	Extender Board
FSB-7110	Rear Support Brackets

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 VIDEO

7514001-.02-

Item	QTY	Description	Part #	REF
1	1	NO VALUE, CONN, 2P, 3.5mm, 45DEG, TERM STRIP	-----	J7
2	1	NO VALUE, HDR, 3P, 1 ROW, M	-----	JP1
3	5	NO VALUE, TEST POINT	-----	MP1, MP2, MP3, MP4, MP5
4	40	CONN, BNC, 5P, PCB MNT, 0.093 APPLICATION	310-012	V1, V2, V3, V4, V5, V6, V7, V8, V9, V10, V11, V12, V13, V14, V15, V16, V17, V18, V19, V20, V21, V22, V23, V24, V25, V26, V27, V28, V29, V30, V31, V32, V33, V34, V35, V36, V37, V38, V39, V40
5	1	CONN, 3P, PCB MNT, AC	311-023	J1
6	1	CONN, 24P, PCB MNT, 30P MOD	311-032	J6
7	4	CONN, 2X25P, PCB MNT, PRESS FIT	311-036	J2, J3, J4, J5
8	1	VIDEO 1R/U 4 D.A. MOTHER ----- PCB	7514-001-02	PCB
9	1	VIDEO 1R/U 4 D.A. MOTHER ----- R PNL	7514F-002	REAR PANEL
10	1	RETAINER, LINE/CORD A/C	842-003	AC CLIP1
11	1	TERMINAL, SOLDER LUG #4	910-007	MP1 LUG
12	2	WASHER, FIBRE. 1/8ID, 5/16OD, 1/16T	960-032	WASHER1, WASHER2
13	3	WIRE, 18AWG, STRANDED CSA	970-017	MP1 WIRE, MP2 WIRE, MP3 WIRE



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