

VersiVision
FVC14 Chassis and Accessories
Technical Manual

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SECTION 1 DESCRIPTION OF EQUIPMENT

INTRODUCTION

This manual provides information on the operation of the VersiVision FVC14 Chassis and Accessories. Section 1 contains a general description and operation of the equipment. Section 2 contains maintenance and troubleshooting information.

Model Number	Description
FVC14-110	14-slot chassis; 110VAC; f/u/w receiver modules
FVC14-220	14-slot chassis; 220VAC; f/u/w receiver modules
FVC14-110-PS	110VAC power supply for FVC14-110 chassis
FVC14-220-PS	220VAC power supply for FVC14-220 chassis
FVC14-BP	Blank panel to cover unused slot in FVC14 chassis

PSACV1	Power supply f/u/w standalone video TX and RX; 120VAC to 9VDC
VCA1100	Data cable f/u/w FVT110x, FVR110x, FVR110xM

DESCRIPTION OF EQUIPMENT

Functional Characteristics

The VersiVision FVC14 Chassis can fully accommodate the combination of up to 14 video receiver modules (FVR100xM or FVR110xM Series). The FVC14 Chassis employs a 110VAC Switch Mode Power Supply (SMPS) design; reducing the possibility of a single point-of-failure that can cause a complete shutdown or a major fault of other modules within the chassis. The high stability of the system ensures that if only one module shuts down, the operation of the other modules remains unimpaired. Two air-cooling fans are installed inside to further strengthen the long reliability of the system and eliminate the necessity of periodic maintenance. All of the modules inserted in the chassis are hot swappable. Therefore, it is unnecessary for the user to power-down the chassis when removing or replacing the modules.



FIGURE 1: FVC14 Chassis, Rear View



FIGURE 2: FVC14 Chassis, Front View

SPECIFICATIONS

Input Voltage	110VAC
Power Supply (to each plug-in module)	8.5VAC 300mA
Filter Form	AC/DC filtering
Slots	14 slots
Size (L x W x H)	19.0 x 11.8 x 5.25 in. 48.2 x 30 x 13.3 cm.
Air Cooling Fan	Two
Power Supply	9VDC/0.23A
Power Consumption	2W
Construction	Aluminum
Finish	Black Paint
Operating Temp	-30°C to +50°C
Storage Temp	-40°C to +70°C

POWER SUPPLY

The standard power supply for the FVC14 chassis can be either 110VAC (Model FVC14-110), or 220VAC (Model FVC14-220) which are connected through an attached line cord. Both power supplies use a 32-pin connector which connects with the 32-pin female

connector on the back plane of the chassis which in turn provides power for each receiver module. The red input lamp on the back panel illuminates when the power supply is properly connected to the unit.

BACK PLANE CIRCUIT BOARD

The back plane of the chassis is solely designed for the purpose of distributing voltage to each plug-in module. A 32-pin female connector is provided from the back plane for each slot in the chassis, supplying an 8.5 VAC power source. This is the only electrical connection from the back plane to the modules.

PLUG-IN RECEIVER MODULES

Plug-in modules are installed by sliding into card guides located in the top and bottom of each available slot in the chassis. The module should be pushed in completely so that the 32-pin male connector on the rear of the card engages the 32-pin female connector on the back plane. The module is also fastened into place by tightening two captive panel screws into the appropriate mating sockets with a small flat blade screwdriver.

Each plug-in module is equipped with a red LED, which will illuminate when power is properly connected to the chassis. The failure of any module in the chassis will not disable the entire chassis.

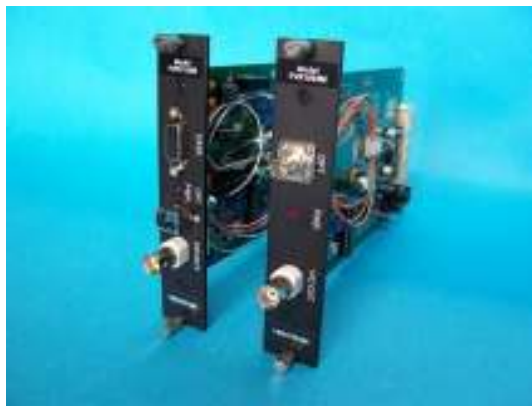


FIGURE 3:
FVR110xM and FVR100xM Receiver Modules

SECTION 2 TROUBLESHOOTING

If the power lamp on the back panel fails to light, check whether the line cord is properly connected. If there is power on the line cord, check the fuse located in the fuse container under the red lamp button on the back panel of the unit. As a final solution, replace the power supply.

If the power LED indicator on all plug-in modules fails to light, check the unit in the following steps:

1. The power lamp button on the rear panel is lit.
2. The 32-pin male connector on the rear of the modules is firmly connected to its mating connector on the back plane.

If the unit still fails to work normally after confirming the above step, the chassis should be replaced.

If the power LED on an individual plug-in module fails to light, check the unit in the following steps:

1. The plug-in module should be firmly seated into the female connector on the back circuit board.
2. The fuses in the fuse container under the red lamp button should be intact. If not, return the module for maintenance.

ACCESSORIES



FIGURE 3: PSACV1

The PSACV1 power supply is a 120VAC to 9VDC converter used with the standalone FVT transmitters and FVR receivers. It has a 5ft., 3-conductor AC cord with grounded plug and a 3.5ft., 3-conductor DC cord with a terminal connector.



FIGURE 4: VCA1100 Data Cable

The VCA1100 Data cable is used with FVT110x video transmitters and FVR110xM video receiver devices. It supports RS-232, RS-422, and RS-485 interfaces to control a camera with PTZ (pan, tilt, zoom) features. The VCA1100 is a 3ft., 2-conductor cable terminated with a DB9F connector.