# CARBONITE

**CAUTION!** Before you set up and operate your device, see the "Important Safety Instructions" in your switcher and router manuals.

OOO Output BNCs OOOOOOOO Input BNCs OOO

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## **Installation and Cabling**

Power and Cabling

Flex Slot

CSlot 1

**⇐**Slot 2

Slot 3

Slot 4

CSlot 5

CSIOT 6

CSlot 7

Slot 8

CSlot '

**⇐**Slot 2

Slot 3

Slot 4

GPI

I/O 14

I/O 15

I/O 16

I/O 17

I/O 18

I/O 19

I/O 20

I/O 21

I/O 22

I/O 23

I/O 24

25 Ground

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15

16

17

18

19

20

21

22

23

24

I/O 1

I/O 2

I/O 3

I/O 4

I/O 5

I/O 6

I/O 7

I/O 8

I/O 9

I/O 10

I/O 11

I/O 12

I/O 13

### **Ultrix 5RU Frame**

NOTICE Adequate ventilation within a rack frame must be maintained. Ensure side to side ventilation is not compromised. Refer to the Ultrix Installation Guide for more information.

### Notes:

- The Ultrix FR12, FR5, and FR2 frames support multiple Carbonite switcher platforms at once.
- The switcher uses the Reference input to Ultrix for timing.
- All power supplies must be connected to operate the switcher.
- The input and output BNCs on the SDPE blade are mapped to physical inputs and outputs 19-22 on the switcher.
- · Physical sources and destinations on the router must be mapped internally to inputs and outputs on the switcher.
- The Ultrix SDI I/O blade is used to provide sources and destinations that the switcher can access.
- The REF B connection is not supported at this time.
- A 1GbE ethernet connection is required for Ultrix.
- An Ultricool may be required, depending on your installation.
- can support up to 4 SDPE blades, and the FR2 can support up to
- The Protective Earth Stud may not be present on all frames.



Ultrix 2RU

Ultrix 5RU

FLE SI O

*~*©

Ultrix SDI I/O

Aux SFP+

..... 👌 🔚 .

Protective

Earth Stud

Reference

In/Loop 🦵

Software Defined

Production

Engine (SDPE)

always be disconnected when the SDPE blade is not installed in the frame.

### Notes:

- The switcher is made up of a single SDPE blade. Each SDPE blade provides an independent Carbonite switcher.
- The number of SDPE blades a system can have depends on the size of the Ultrix frame and the other blades that are installed.
- Each SDPE blade is independent of the others. If you upgrade one to a different version of software, that upgrade is not pushed to the other SDPE blades.
- The GPI and Tally ports on each SDPE blade are independent of each other.





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Read the instruction manual for your Ultripower and Ultrix FR12, FR5, or FR2 before starting work or operating equipment.

**CAUTION!** Risk of electrical shock. Enclosure shall be connected to earth ground via protective earth stud and 18AWG conductor or larger.

NOTICE The Ultrix frame and SDPE blades do not have power switches. Ensure that the Ultripower is not connected to mains power before connecting the power cables from the Ultripower to the other components. This prevents part of the system from powering up before you are ready.



# CARBONITE

# **Powering Up/Down**

## **Ultripower Connection**

- 1. Connect an Ultripower unit to mains power. **Important:** Do *NOT* connect them to the SDPE blades.
- 2. Connect to one of the Ultripower units from DashBoard.
- 3. Click Change in the Device Power State to turn the power off.
- 4. Wait for the Avg Output (W) to go to 0.
- 5. On the **Setup** tab, name the first power supply *Ultrix* and assign all the power supplies to that label.
- 6. Repeat for the other Ultripower and name it *Carbonite* for each blade.



### **Ultrix Carbonite Power Connection** 2

- **1.** Connect the *Ultripower Carbonite* to the SDPE blades.
- 2. Connect the *Ultripower Ultrix* to the Ultrix.

**Tip:** If your system is small enough that it can be powered by a single Ultripower you do not need to use separate ones for the Ultrix and Carbonite. The entire system can be power on at the same time.



for cooling.

time.

ltripower		
Product Ne	twork	PSU
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		Outputs
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		Power
vg Output (W)		



## **Ultrix Carbonite Power Up**

1. Connect to the Ultripower - Carbonite or Ultrix in DashBoard.

- 2. Click Change in the Device Power State to turn the power on.
- **3.** Repeat for the other Ultripower.
- **4.** The Ultrix Carbonite should be booting up now.
- Important: Ensure that the Ultrix and SDPE blades are powered up or powered down at roughly the same time. The SDPE blades require the Ultrix

**Tip:** On the Ultripower you can connect all four power connections to a single label. This allows you to power on all four connections at the same

### DashBoard - Ultripower

Control	Log	Setup Net	hwork									
		Device Power										
	Device		Carbonite									
Davice Pos												
			Unipad						Close			

Having a problem? Call our free, 24-hour technical support hotline to speak with a live product specialist located right here in our facility. Tel (North America): 1-844-652-0645 Tel (International): +800 1005 0100 Email: techsupport@rossvideo.com

