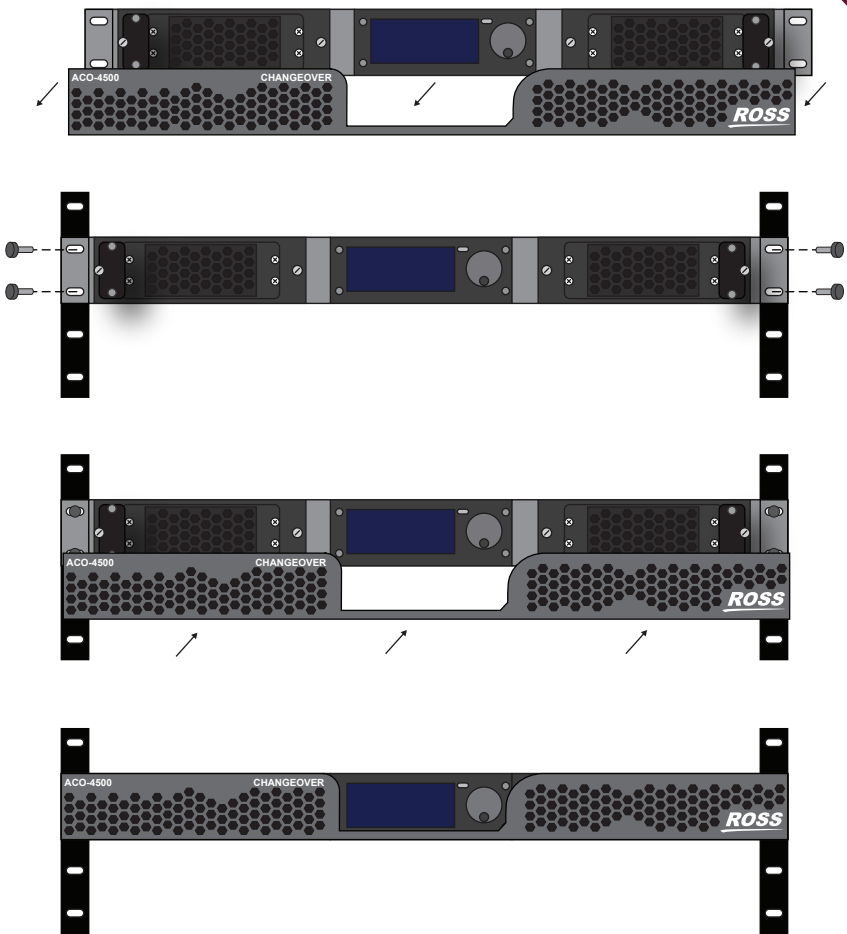


ACO-4500 Installation and Cabling



Before you set up and operate your ACO-4500, refer to the "Important Regulatory and Safety Notices to Service Personnel" document that was included with your unit. It is also recommended to refer to the *ACO-4500 User Manual* which is available for download from our website.

Rack Mounting

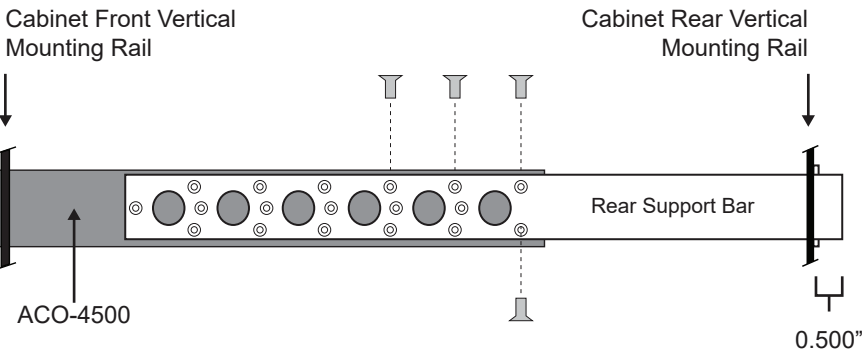


Rear Support Brackets

Warning: Do not use the support brackets to carry the ACO-4500. The brackets are not primarily designed for this purpose, and property damage or personal injury may result.

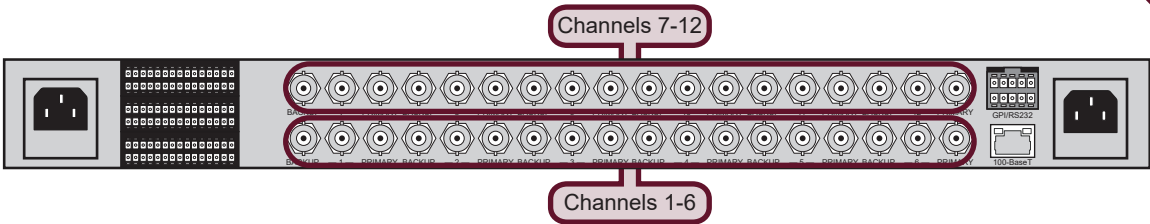
To install the support brackets

1. Select a mounting position that allows rear support bars to slide into slots of the brackets.
2. Choose the position that suits the cabinet depth and gives approximately a 0.5" projection beyond the previously mounted bracket.
3. Using four screws per bracket, attach both bars.

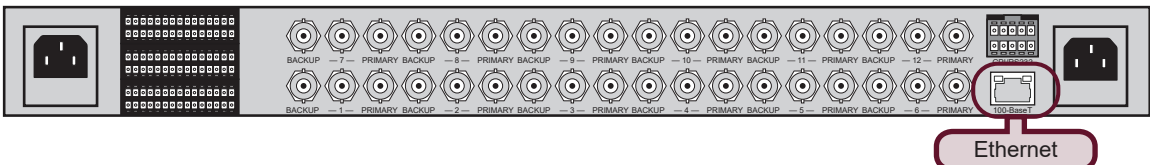


4. Mount the frame to the front rails of the rack cabinet using rack screws.
5. At the rear of the cabinet:
 - a) Slide the bracket slots over the rear of the support bars.
 - b) Secure to the cabinet rear rails with rack screws.

BNC Cabling



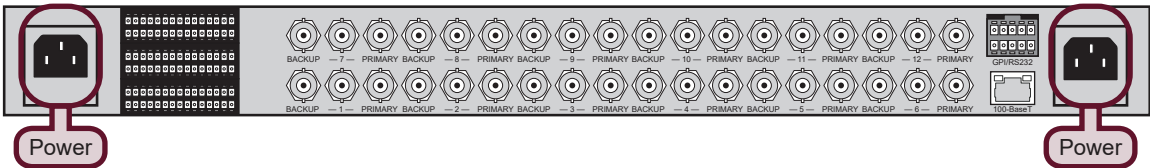
Communications Cabling



Note: The GPI/RS-232 port is not implemented.

Power Connections

Note: The ACO-4500 powers on automatically when the power supply is plugged in.



Specifications

Physical Specifications

Clearance	Side: 2.00" (50mm)
	Rear: 3.00" (75mm)
Height	1.71" (43.5mm)
Width	19.00" (482.5mm)
Depth	15.95" (405mm)
Temperature	Op: 0°C to +40°C
	Non-op: -20°C to +60°C

BNC Channels (Per Channel)

Connector Type	3 x 75ohm BNC
Return Loss	>20dB to 1GHz
	>14dB to 3GHz
Max. Switched Voltage	30V DC (30V AC)
Max. Switched Current	0.5A
Relay Switch Time	Set time: max. 3.5ms
	Release time: max. 2.5ms
	Set/Release time: max. 10mS
Insertion Delay	<1ns

Ethernet Interface

Connector Type	RJ45 - 8P8C
IEEE Standards Compliance	802.31-1990, 802.3u-1995,

AC Power Source

Operational Voltage Range	120-230VAC 50-60Hz
Absolute Limits Voltage Range	90-264VAC, 47-63Hz
Operational AC Current (each PSU)	<130mA @ 230VAC
	<200mA @ 120VAC
Surge Current (each PSU)	<40A @ 230VAC <20A @ 120VAC
Power Consumption (dual PSU)	46VA (21W)
	Single output, AC-DC

Balanced (Unmonitored Channels, Relay)

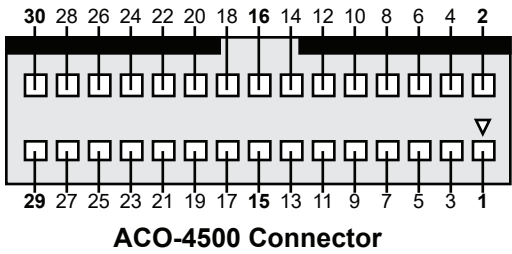
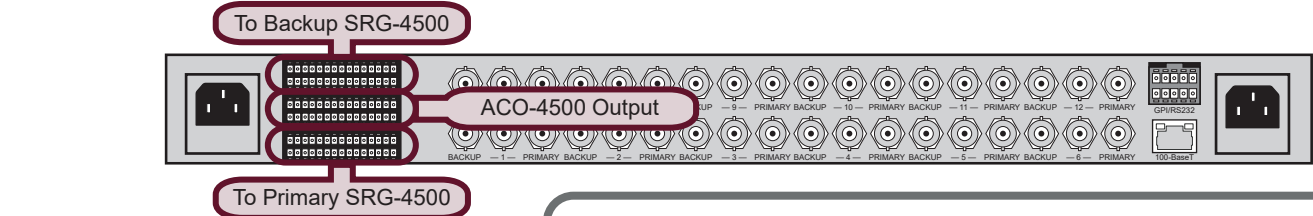
Connector Type	MicroClasp™ 2mm
Return Loss	>17dB to 50MHz
	>4dB to 270MHz
Max. Switched Voltage	48 V DC (24V AC)
Max. Switched Current	1A
Relay Switch Time	Set time: max. 3ms
	Release time: max. 2ms
	Set/Release time: min. 9mS
Insertion Delay	<1ns

ACO-4500 Installation and Cabling



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Connecting an SRG-4500



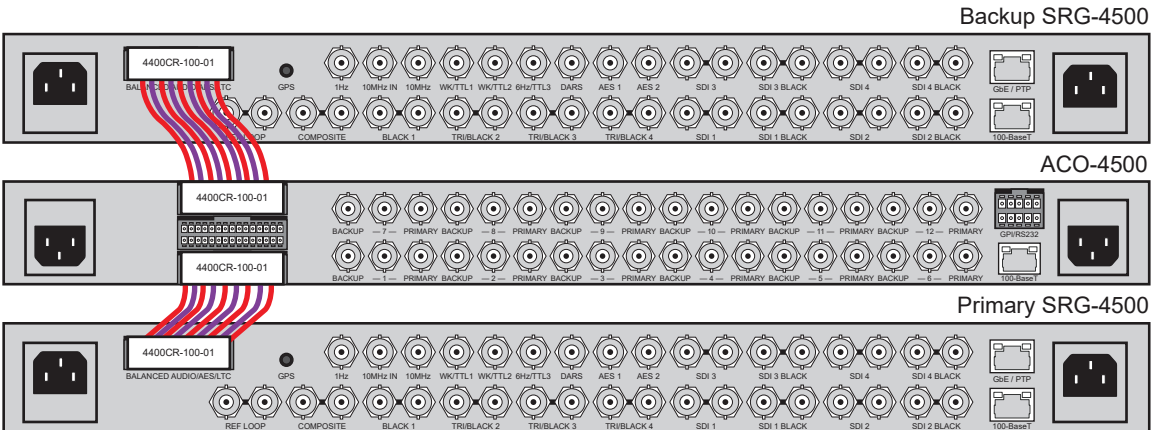
Balanced Connectors	
Pin	Signal/Function
1	Ground
2	Ground
3 +	LTC1-4/AES1-8/DARS/2.048MHz
4 -	LTC1-4/AES1-8/DARS/2.048MHz
5 +	LTC1-4/AES1-8/DARS/2.048MHz
6 -	LTC1-4/AES1-8/DARS/2.048MHz
7 +	LTC1-4/AES1-8/DARS/2.048MHz
8 -	LTC1-4/AES1-8/DARS/2.048MHz
9 +	LTC1-4/AES1-8/DARS/2.048MHz
10 -	LTC1-4/AES1-8/DARS/2.048MHz
11 +	LTC1-4/AES1-8/DARS/2.048MHz
12 -	LTC1-4/AES1-8/DARS/2.048MHz
13 +	LTC1-4/AES1-8/DARS/2.048MHz
14 -	LTC1-4/AES1-8/DARS/2.048MHz
15 +	LTC1-4/AES1-8/DARS/2.048MHz
16 -	LTC1-4/AES1-8/DARS/2.048MHz
17 +	LTC1-4/AES1-8/DARS/2.048MHz
18 -	LTC1-4/AES1-8/DARS/2.048MHz
19 +	AES2
20 -	AES1
21 +	AES1
22 -	AES1
23 +	DARS
24 -	DARS
25 +	AUD1 LEFT
26 -	AUD1 LEFT
27 +	AUD2 RIGHT
28 -	AUD2 RIGHT
29 +	Ground
30 -	Ground

To connect the Primary SRG-4500 to the ACO-4500

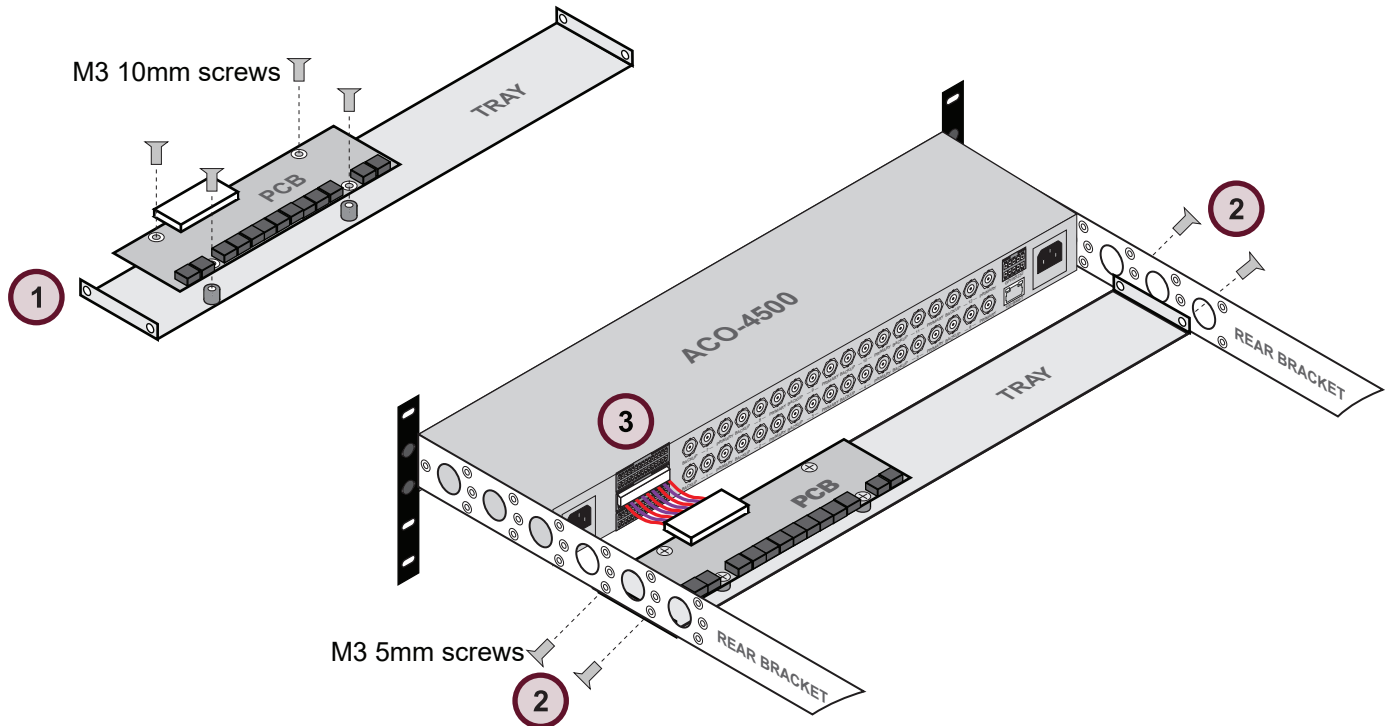
1. Connect one end of an Interface Cable (PN 4400CR-100-01) to the **BALANCED** connector on the Primary SRG-4500 rear panel.
2. Connect the other end of the same Interface Cable to the **bottom** 30-pin connector on the ACO-4500 rear panel.

To connect the Backup SRG-4500 to the ACO-4500

1. Connect one end of an Interface Cable (PN 4400CR-100-01) to the **BALANCED** connector on the Backup SRG-4500 rear panel.
2. Connect the other end of the same Interface Cable to the **top** 30-pin connector on the ACO-4500 rear panel.



Installing the Breakout PCB



Set the IP Address

Note: You must set the IP address of the ACO-4500 from the front control panel after power up. Contact your facility Network Administrator for the required network settings.

To set the IP Address for the ACO-4500

1. Use the **Rotary/Push Control** dial on the front panel to display the **Network Menu** on the front control panel: Operational Menu > System Menu > Network Menu.

Network Menu	
IP Address	= 000.000.000.000
Subnet Mask	= 000.000.000.000
Gateway	= 000.000.000.000
MAC Address	= 00:00:00:00:00:00

2. Use the **Rotary/Push Control** dial to set the IP Address, Subnet Mask, Gateway, and MAC Address for the ACO-4500.
3. Use the **Back** button to return to the Operational Menu.



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: (+1) 613 • 652 • 4886
Email: techsupport@rossvideo.com

