XPression

Basic Cabling

⚠ CAUTION: Before you set up and operate this product, refer to the Important Safety and Regulatory Notices document included in the shipping box.

Need Help?

Technical Support:
1-844-652-0645 (North America)
+800 1005 0100 (International)
Email: techsupport@rossvideo.com

1 Attach the handles to the front rack-mount tabs by aligning the handle with the round holes and fastening from the rear with the supplied screws.

2 Use the supplied Rack Mount Kit to mount the XPression system in a 19'' EIA equipment rack.

For information on installing the XPression chassis in a rack, see the provided document "Installing the 1RU Chassis in a Rack".

To avoid overheating, DO NOT obstruct the front air intake, rear exhaust vents, or side exhaust vent of the chassis.

3 Plug the supplied Keyboard into a **USB** port.

4 Plug the supplied Mouse into a **USB** port.

5 Connect a Monitor (customer supplied) to any of the four display ports.

KVM extenders (customer supplied) are required when the XPression system monitor, keyboard, and mouse are located remotely from the rack room.

6 Plug an Ethernet cable from your Local Area Network into one of the **Ethernet** ports (**a**) 2 x 10GbE, (**b**) 1 x 2.5GbE, (**c**) 1 x 1.0 GbE.

For information on the IPMI port (**d**) refer to the "*XPression 2RU Maintenance Guide*".

XPression systems can run standalone or accept a connection to a production network. The network connection is also used for the RossTalk / Smart GPI feature.

7 Connect the display port end of the display-port-to-USB-C-cable to the third display port and the USB-C end to the first USB-C port.

8 Connect the display port end of the display-port-to-USB-C-cable to the fourth display port and the USB-C end to the second USB-C port.

9 Connect power cords from the AC ports on the XPression system to the mains power.

XPression system power supplies are auto-sensing and can use either 110 VAC or 220 VAC.

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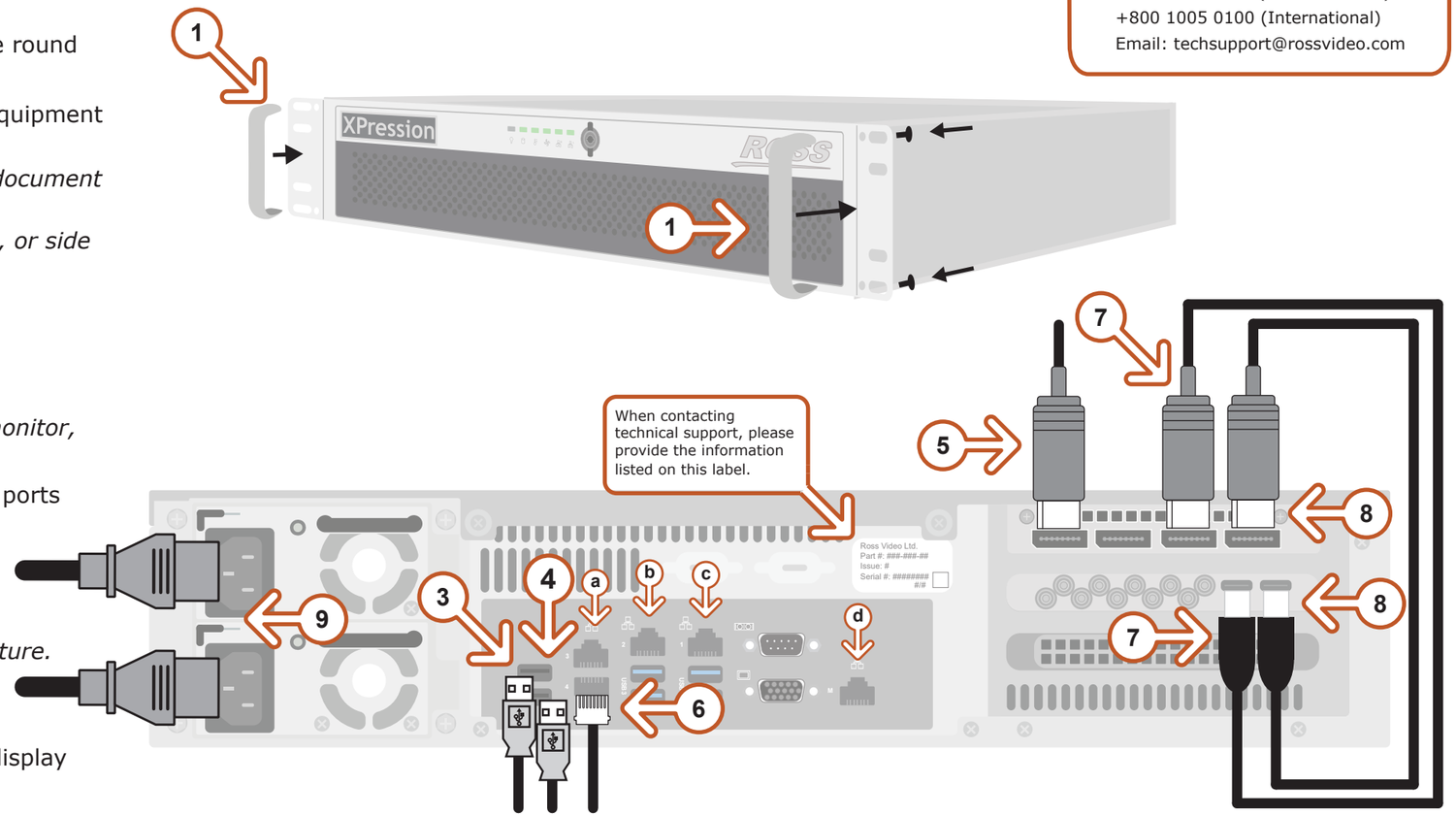
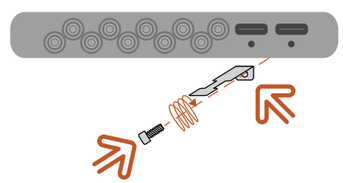


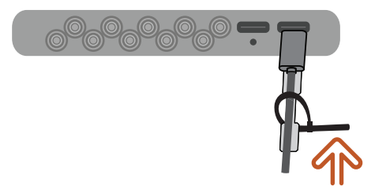
Power Consumption			
Product/Model	Maximum (Peak)		Conditions/Notes
	Power (W)	Voltage (V)	
Ross I/O 2RU	512	110	100% Load

To attach the retaining clip:

1 Align the Retaining Clip so that the mounting hole is on the right and install the 1.5mm Hex screw into the hole next to the USB-C port.



2 Insert the USB-C cable into the port next to the Retaining Clip and use a supplied Cable Tie to secure the USB-C cable to the Retaining Clip.



3 Repeat these steps for the second USB-C cable if required.

XPression

Card Cabling

1 Connect your house reference Genlock signal to the **REF** HD-BNC connector.

XPression systems accept analog blackburst or tri-level sync as reference inputs. Tri-level sync is recommended for HD installations.

2 Connect the HD-BNC end of the pigtail cables to the HD-BNC connectors and attach the SDI cables to the BNC end of the pigtails according to their required destination (see the *XPression User Guide* or Help file for information about configuring the key and fill for the HD-BNC connectors). The default and UHD configuration is displayed in the tables below.

Not all HD-BNC connectors will be active depending on the XPression software edition. Keep any unused pigtail and SDI cables in a safe place for future use.

If your facility requires analog outputs, additional outboard digital to analog conversion equipment is available from Ross Video.

Inputs/outputs can be configured in the Hardware Setup in the XPression User Guide or Help file.

3 Press the **Power** button (⏻) on the front of the XPression system.

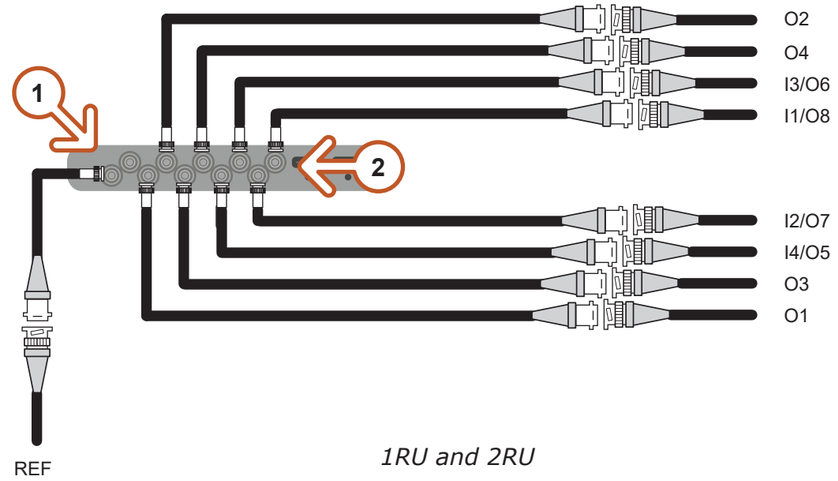
Ross Video recommends shutting down XPression systems from the Windows operating system.

4 Click the **XPression** user account icon to log onto the system.

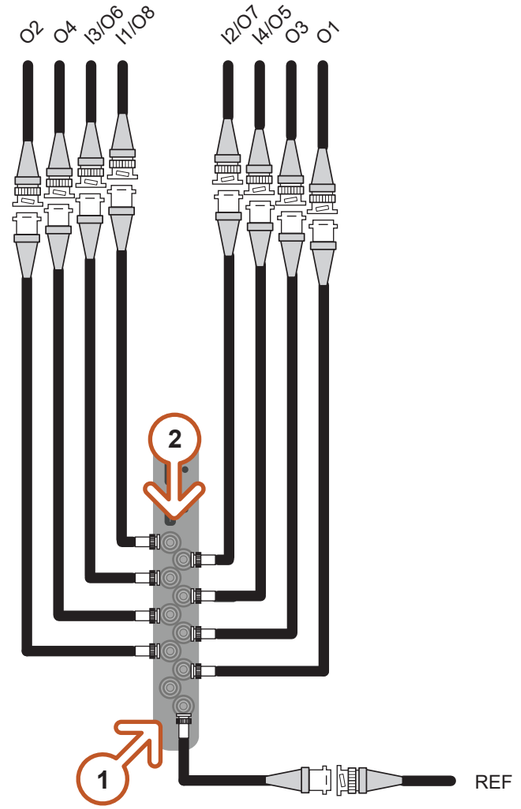
5 Launch XPression from the **Start** menu.

Software Bypass
I1 ==> O1
I2 ==> O2
I3 ==> O3
I4 ==> O4

Note: Available when system is running



1RU and 2RU



4RU

I/O	SD/HD	UHD
I1/O8	Out 8/Out 4 Key/In 1	In 1
I2/O7	Out 7/Out 4 Fill/In 2	In 2
I3/O6	Out 6/Out 3 Key/ In 3	--
I4/O5	Out 5/Out 3 Fill/In 4	--
O4	Out 4/Out 2 Key	Out 4/Out 2 Key
O3	Out 3/Out 2 Fill	Out 3/Out 2 Fill
O2	Out 2/Out 1 Key	Out 2/Out 1 Key
O1	Out 1/Out 1 Fill	Out 1/Out 1 Fill

Note: Key is always on an even output

Sample configurations:

I/O	2 In 3 Fill/Key*	8 Out	4 Fill/Key	4 In 4 Out	1 Fill 2 Fill/Key	2 Fill 2 Fill/Key
I1/O8	In 1	Out 8	Out 4 Key	In 1	--	--
I2/O7	In 2	Out 7	Out 4 Fill	In 2	--	--
I3/O6	Out 3 Key	Out 6	Out 3 Key	In 3	Out 3 Key	Out 4 Key
I4/O5	Out 3 Fill	Out 5	Out 3 Fill	In 4	Out 3 Fill	Out 4 Fill
O4	Out 2 Key	Out 4	Out 2 Key	Out 4	Out 2 Key	Out 3 Key
O3	Out 2 Fill	Out 3	Out 2 Fill	Out 3	Out 2 Fill	Out 3 Fill
O2	Out 1 Key	Out 2	Out 1 Key	Out 2	--	Out 2
O1	Out 1 Fill	Out 1	Out 1 Fill	Out 1	Out 1	Out 1

*Default setup

For information on...

- operating XPression, see the "XPression User Guide" available in the C:\Archive folder
- maintenance of the XPression system, see the "XPression Maintenance Guide" in the C:\Archive folder
- other XPression features and functions, see the documents available in the C:\Archive folder