

RCP

Auxiliary Control Panels

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The information in this document applies to the RCP-NK1, NK-IPS, and RCP-ME.

Cable Connections

The Ross® RCP-NK1 connects to the switcher through an NK-IPS and NK-NET. The connection between the NK-NET and the switcher is over ethernet.

The RCP-ME connects to the switcher directly over ethernet.

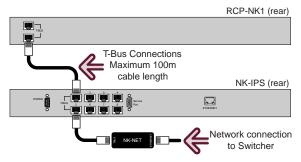


Figure 1: RCP-NK1 to Switcher Cabling

Refer to the documentation that came with your device for safety and setup information.

Switcher Communications Setup

The switcher must be set up to communicate with the aux panel using an ethernet protocol.

To Set Up Ethernet Communications

- Press MENU > SYSTEM > NEXT > NEXT > Device Config
- **2.** Press **Add** and use the **Slot** knob to select an ethernet connection (**Slot** #).
- **3.** Use the **Type** knob to select **RouterPanel**.
- 4. Press **NEXT**.
- **5.** Use the **SubType** knob to select the driver for your panel.
 - RCP-NK1 select NK-IPS 1.0
 - RCP-ME select RCP_ETH_1.0
- **6.** Press **NEXT**.

 Note: NK-IPS only. If you are setting up an RCP-ME skip to setting the port value. You cannot set an IP address for this device.

Use the **Field** knob to select the segment of the IP address you want to edit and the **Value** knob to select the number.

Note: You must enter the IP address of the NK-NET that you are using to communicate with the NK-IPS.

- 8. Press NEXT.
- **9.** Use the **Option** and **Value** knobs to complete the setup.

Option	Value	
Port	RCP-NK1 — select the Client TCP Port of the NK-IPS that the RCP-NK1 is connected to. RCP-ME — select 5000.	
Level	Select which level on the RCP panel is controlling the switcher.	

10. Press the **Option** knob and **Confirm** to add the device.

Auxiliary Control Panel Setup

The aux panel must be set up to communicate with the switcher using the same serial or ethernet communications as you set the switcher up to use.

Note: This information in this procedure is provided as a guide and is based on the current version of hardware and software that was available at the time of testing. For the most accurate and up-to-date information, refer to the documentation that came with your router.

Note: The NK-IPS must be set with a gateway of 0.0.0.0 if there is no gateway configured on your network.

To Set Up Ethernet Communications

The information in this procedure is provided as a guide and may not represent the current state of the RCP panels. Refer to the documentation that came with your RCP panel for the latest setup information.

- **1.** Connect the RCP to a network on the same subnet as your DashBoard computer and the switcher.
- 2. In DashBoard, click File > Show Walkabout.



3. Click Refresh.

A list of all RCP panels on the network is shown.

4. Select the RCP panel that you want to set up.

Tip: If you do not know which RCP is the one you want to set up, click **Locate** for each RCP until the buttons on your RCP panel start flashing. Click **Locate** again to stop the buttons flashing.

 Enter the IP Address (Address), netmask (Netmask), and gateway (Gateway) you want to assign to the panel.

Tip: You can also enter a name (**Name**) for the panel if you want.

6. Click **Reboot** to reboot the panel and apply the new network settings.

When the panel reboots with the new network settings it should be discovered by DashBoard and appear in the **Basic Tree View**.

- 7. Double-click the RCP node in the **Basic Tree View** to open the configuration window.
- **8.** In the **Servers to connect to** area, enter the IP address of the NK-IPS that you want to connect it to.
- 9. Click Send Configuration.

Remote Control Panel Interface

From the Ross RCP-NK1 Remote Panel, you can select video sources on Aux, Program, Preview, and Key buses on the switcher, and run custom controls.

To Select a Source on a Bus from the Remote Panel

- **1.** Select the level on the Remote Control Panel that is assigned to the switcher.
- 2. Select the button on the output section of the Remote Panel that corresponds to the output BNC on the switcher. Refer to the output mapping table for your switcher.
- **3.** Select the button on the input section of the Remote Panel that corresponds to the source on the switcher you want to select. Refer to the input mapping table for your switcher.

Selecting an input (or source) on the Remote Panel acts like a selection of that source on the bus of the switcher.

Router Panel Output/Input Mapping

Note: The mapping for the Carbonite Black operating in a UHDTV1 video format is different from it operating in an SD/HD format.

Note: PGM ME refers to the ME that is set at the program ME on the switcher, and could be ME 1 or ME 2, depending on the configuration of your switcher.

Table 1: Router Control Panel Output Mapping

			,	
Router Output	Carbonite	Graphite	Carbonite Black SD/HD	Carbonite Black UHDTV1
1-8		Au	x 1-8	
9-10			Aux 9-10	
11-20		Aux	11-20	-
61		MiniME [™]	1 Program	
62		MiniME [™]	1 Preview	
63		MiniME [™] 1 Ke	y 1 Video+Alpha	
64		MiniME [™] 1 Ke	y 2 Video+Alpha	
65		MiniME [™] 1	Key 1 Alpha	
66		MiniME [™] 1	Key 2 Alpha	
67		MiniME [™]	2 Program	
68		MiniME [™]	2 Preview	
69		MiniME [™] 2 Ke	y 1 Video+Alpha	
70		MiniME [™] 2 Ke	y 2 Video+Alpha	
71		MiniME [™] 2	Key 1 Alpha	
72		MiniME [™] 2	Key 2 Alpha	
73	ļ	MiniME [™] 3 Prograi	n	-
74		MiniME [™] 3 Previev	V	-
75	MiniME [™] 3 Key 1 Video+Alpha		-	
76	MiniN	IE [™] 3 Key 2 Video	-Alpha	-
77	M	iniME [™] 3 Key 1 Al _l	ha	-
78	M	iniME [™] 3 Key 2 Alp	oha	
79	MiniME [™] 4 Program			
80	MiniME [™] 4 Preview			
81	MiniME [™] 4 Key 1 Video+Alpha		-	
82	MiniME [™] 4 Key 2 Video+Alpha			
83	MiniME [™] 4 Key 1 Alpha			
84	MiniME [™] 4 Key 2 Alpha			
85	MultiScreen 1 Program			



Router Output	Carbonite Gra	phite	Carbonite Black SD/HD	Carbonite Black UHDTV1
86	MultiScreen 1 Preview			
87	MultiScreen 1 Key 1 Video+Alpha		Alpha	
88	MultiScreen 1 K	ey 2 Video+	Alpha	
89	MultiScreen	1 Key 1 Alp	ha	
90	MultiScreen	1 Key 2 Alp	ha	-
91	MultiScree	n 2 Progran	1	
92	MultiScree	n 2 Preview	,	-
93	MultiScreen 2 K	ey 1 Video+	Alpha	-
94	MultiScreen 2 K	ey 2 Video+	Alpha	-
95	MultiScreen	2 Key 1 Alp	ha	-
96	MultiScreen	2 Key 2 Alp	ha	-
97		PGM ME	Program	
98		PGM ME	Preview	
99	PGI	M ME Key 1	Video+Alpha	
100	PGI	M ME Key 2	Video+Alpha	
101	PGI	M ME Key 3	Video+Alpha	
102	PGI	M ME Key 4	Video+Alpha	
105	ļ	PGM ME K	ey 1 Alpha	
106	ļ	PGM ME K	ey 2 Alpha	
107	ļ	PGM ME K	ey 3 Alpha	
108	l	PGM ME K	ey 4 Alpha	
111		ME 1 Pr	ogram	
112		ME 1 Pi	eview	
113	ME 1 Key 1 Video+Alpha			
114	ME 1 Key 2 Video+Alpha			
115	ME 1 Key 3 Video+Alpha			
116	ME 1 Key 4 Video+Alpha			
119	ME 1 Key 1 Alpha			
120	ME 1 Key 2 Alpha			
121		ME 1 Key	3 Alpha	
122	ME 1 Key 4 Alpha			
125	ME 2 Program		-	
126	ME 2 I	Preview		
127	ME 2 Key 1	Video+Alph	ıa	
128	ME 2 Key 2	Video+Alph	ia	
129	ME 2 Key 3 Video+Alpha		-	
130	ME 2 Key 4 Video+Alpha		-	
133	ME 2 Key 1 Alpha		-	
134	ME 2 Ke	ey 2 Alpha		

Router Output	Carbonite	Graphite	Carbonite Black SD/HD	Carbonite Black UHDTV1
135		ME 2 Key 3 Alpha		
136		ME 2 Key 4 Alpha		
139	ME 3 Program		ME 3 Program	
140	ME 3 Preview		ME 3 Preview	
141	ME 3 Key 1 Video+Alpha		ME 3 Key 1 Video+Alpha	
142	ME 3 Key 2 Video+Alpha		ME 3 Key 2 Video+Alpha	
143			ME 3 Key 3 Video+Alpha	
144			ME 3 Key 4 Video+Alpha	
147	ME 3 Key 1 Alpha	-	ME 3 Key 1 Alpha	
148	ME 3 Key 2 Alpha	-	ME 3 Key 2 Alpha	
149		-	ME 3 Key 3 Alpha	
150			ME 3 Key 4 Alpha	
167			-	CK1 Video
168			-	CK2 Video

Table 2: Router Control Panel Input Mapping

Router Input	Carbonite	Graphite	Carbonite Black SD/HD	Carbonite Black UHDTV1
1-9		Inpu	t 1-9	
10-13		Input 10-13		
14-24	Input 14-24		Input 14-24	
25-36			Input 25-36	
149		Media-	Store 1	
150		Media-	Store 2	
151		Media-Store 3		
152		Media-Store 4		
169	Black			
170	Matte			
176	PGM ME Program			
177	PGM ME Preview			
178	PGM ME Clean Feed			
180	ME 1 Program			
181	ME 1 Preview			
182	ME 1 Clean Feed			
184	ME 2 Program			
185	ME 2 Preview			
186	ME 2 Clean Feed			



Router Input	Carbonite	Graphite	Carbonite Black SD/HD	Carbonite Black UHDTV1
188	ME 3 Program			
189		ME 3 Preview		
190		ME 3 Clean Feed		
200			-	CK 1 Video
201			-	CK 1 Alpha
202			-	CK 2 Video
203			-	CK 2 Alpha
208		MiniM	IE [™] 1	
209		MiniM	IE [™] 2	
210		MiniME [™] 3		
211		MiniME [™] 4		
212		ME 1 Media	Wipe Video	
213		ME 1 Media	Wipe Alpha	
214		ME 2 Media	Wipe Video	
215		ME 2 Media	Wipe Alpha	
216	MultiViewer 1		-	
217	MultiViewer 2		-	
218-225		Aux	1-8	
226-237			Aux 9-20	
278		XPression Channel 1 Video*		
279		XPression Channel 1 Alpha*	-	
280		XPression Channel 2 Video*	-	
281		XPression Channel 2 Alpha*		
282		XPression Channel 3 Video*		
283		XPression Channel 3 Alpha*		
284		XPression Channel 4 Video*		
285		XPression Channel 4 Alpha*		

^{*} Graphite only.

To Run, Stop, or Resume a Custom Control from a Remote Panel

1. Select the level on the Remote Control Panel that is assigned to the switcher.

- 2. Select the button on the output section of the Remote Panel that corresponds to the custom control bank that you want to run, stop, or resume a custom control on. Refer to the following tables for bank mapping information.
- 3. Select the button on the input section of the Remote Panel that corresponds to the custom control that you want to run, stop, or resume. Refer to the following table for custom control mapping.

Router Panel CC Mapping

Table 3: Router Control Panel CC Bank Mapping

Router Output	Switcher Source
223	Custom Control Bank 1
224	Custom Control Bank 2
225	Custom Control Bank 3
226	Custom Control Bank 4
227	Custom Control Bank 5
228	Custom Control Bank 6
229	Custom Control Bank 7
230	Custom Control Bank 8

Table 4: Router Control Panel CC Mapping for Carbonite

Router Input	Switcher Source
1-32	Custom Controls

Table 5: Router Control Panel CC Mapping for Carbonite Black

Router Input	Switcher Source
1-40	Custom Controls

