

EX – Screen Management System: Expansion Box

Quick Start Guide

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Quick Setup and Operations

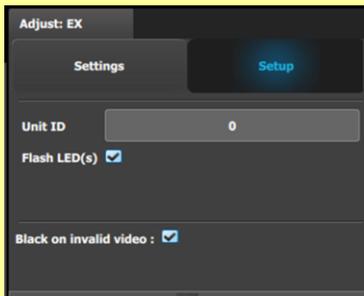
1. Connect all sources, displays and peripherals to the EX extension box according to your event's requirements.
2. Power up the EX and all peripherals.
3. Set up the computer on which you will run the Event Master control software for a static IP address of 192.168.0.200. The network ID must be 192.168.0. You may assign the host ID yourself, but avoid the default static IP address, which is 192.168.0.185. If you plug the USB thumb drive into the EX expansion box, the system creates a "whoareyouEX.txt" file that contains the IP address and the Unit ID.
4. Connect the EX unit via an Ethernet cable to a computer on which the Event Master control software is installed.
5. Use the front-panel LED to verify that the EX unit is running correctly.

On power up, the LED may be in one of four states:

- **Solid red** – The operating system is running.
- **Quickly blinking red** – 3 fast blinks indicates overheating.
- **Steadily blinking red** – 1 blink every second indicates PCIe errors.
- **Solid green** – The main code is running, and the system is ready.

Identify EX Units

1. Select the EX unit (in the Selection area or the Diagram area).
2. Go to the Adjust tab in the Configuration area.
3. Select the Setup sub-tab and check the Flash LED(s) box. The front and rear status LEDs of the selected EX unit will blink.



Recessed Reset Switch

Status LED

USB 2.0 Port



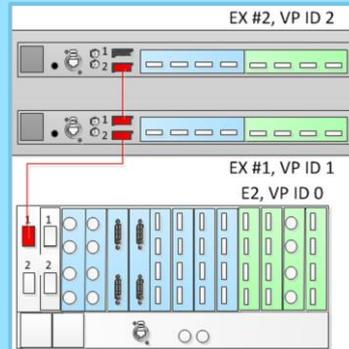
Refer to the *Event Master devices User's guide* (R5905948) for detailed system specifications, descriptions and operation instructions.

Factory Reset

If necessary, press the recessed reset switch and hold it for five seconds to restore the EX extension box to factory settings. If you press the reset switch and release it after fewer than five seconds, the unit toggles between Static IP mode (*LED blinks 2 times*) and DHCP mode (*LED blinks 3 times*).

Link Connections

Each E2 comes equipped with two link cards, always located in slots 1 and 2. Link cards are identified by a yellow stripe at the top. Each EX has two Link sockets.



1. Check the orientation of the cable for keying. The cable fits in only one orientation.
 2. Fully insert the cable into the connector on the Link Card.
 3. If the cable resists full insertion, do not force it; pull the cable out, check its orientation, and reinsert it.
 4. Make sure that the latch is properly engaged.
 5. Always use the release when removing the cable.
- Improper insertion or removal of Link cables can damage the connectors.**

Linking an EX (or a Pair of EX Units) to an E2

- To link an EX to an E2, connect the Link cables from the E2 to the EX as follows:
E2 VP ID 0, Link Card slot 1, Link 1 >> EX VP ID 1, Link 2
- To link two daisy-chained EX units to an E2, connect the Link cables from the E2 to the EXes as follows:
E2 VP ID 0, Link Card slot 1, Link 1 >> EX VP ID 1, Link 2
EX VP ID 1, Link 1 >> EX VP ID 2, Link 2

Connect all devices to network Ethernet.

1. Start the Event Master Toolset version 4.0 or higher.
2. Make sure both the E2 and the EX are discovered on the network and they have different Unit IDs.

If the system does not discover your device, you may manually add it. See "How to manually add a device into the selected system" in the user's guide.

3. Make sure that the E2 and the EX have different IP addresses. The default IP address for each unit is the same; one of them must be changed.
4. Drop the E2 in the GUI.

The EX unit cabled to the E2 appears as a grayed-out box below the E2 unit in the Diagram area. In the grayed-out EX box a blue button allows you to add the EX to the system as a slave.

5. Click the blue add button to add the EX unit. If you are adding two daisy-chained EX units, you must add the first EX in the chain before the second EX in the chain is displayed, then repeat Step 4 to add the second EX in the chain.

Power Switch and AC Connector



Output Card (SDI, HDMI, DP)



The EX expansion box ships without input or output cards. The image here represents a sample configuration

USB 2.0 Port

RJ45 Connector (Ethernet)

Genlock BNC Input and Reference Output

Status LED

Link Connectors
Top = 1
Bottom = 2

Input Card (HDMI/DP, SDI, DVI)

Configuration Menu

C1: Discovery - The Event Master control software automatically discovers the devices connected to the network and lists them on the left hand side of the configuration screen.

C2: Connect - Click on the device that you want to connect, drag it in the middle area, and the software establishes communication with the unit. You can also connect to the E2 by typing the IP address manually.

C3: System Parameters - Select the desired Native Rate and Genlock modes.

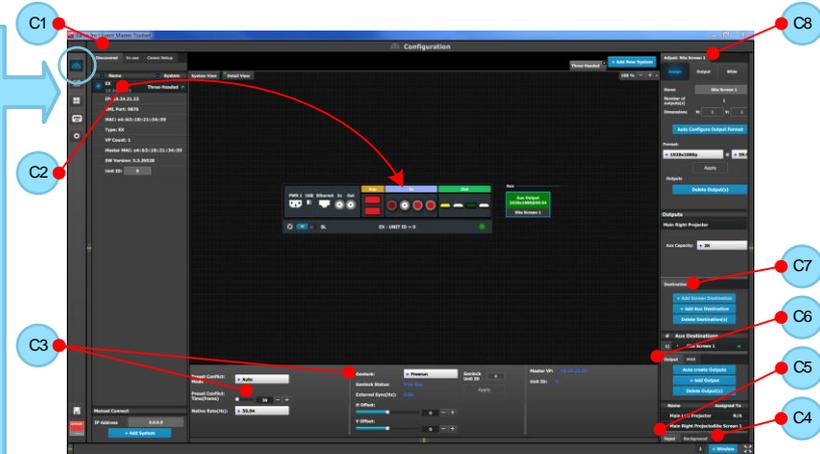
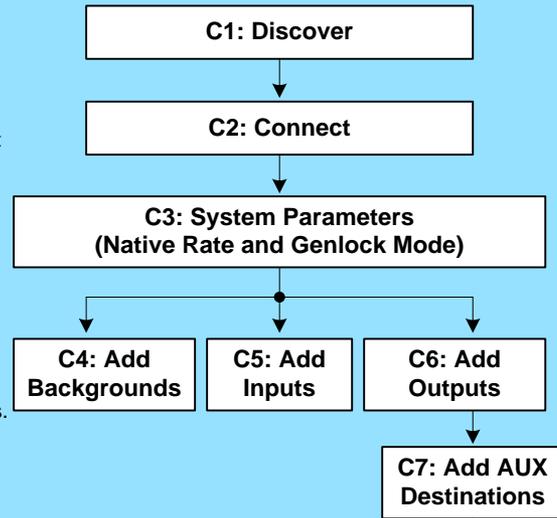
C4: Add Backgrounds - Select and define input connectors as backgrounds.

C5: Add Inputs - Select and define input connectors as Inputs.

C6: Add Outputs - Select and define output connectors as Outputs.

C7: Add Aux Destinations - Select the corresponding output connector(s) from the same card and add them to AUX Destinations.

C8: For any Background, Input, Output, or AUX Destination, select the Adjust tab and perform any necessary adjustments.



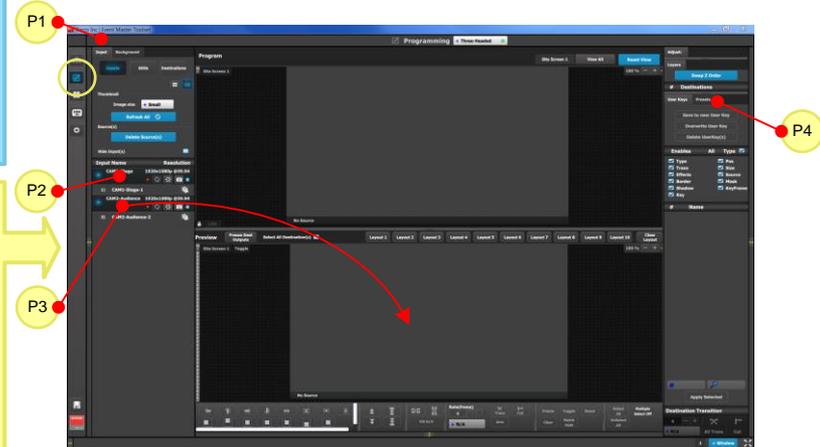
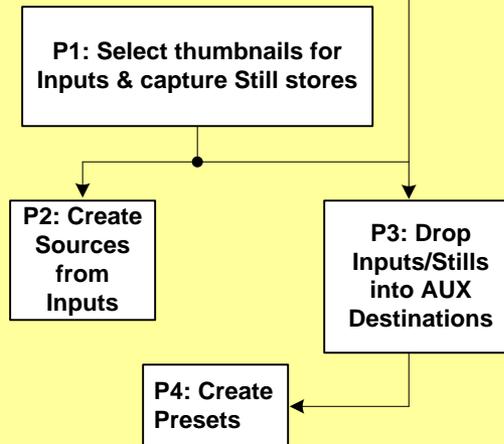
Programming Menu

P1: Select thumbnails for Inputs & Stills – Select the thumbnails to represent Inputs and Stills. Either capture a live thumbnail or select an image file.

P2: Create Sources – Under the Input tab create any additional sources (optional). Select the Adjust tab and perform any additional adjustments. Repeat for all Inputs/Sources and save.

P3: Drop Inputs to Aux Destinations – Under the Input tab select an Input and drop it to an Aux Destination. Select the Adjust tab and perform any additional adjustments. Repeat for all Inputs and save.

P4: Presets – AUX Destination(s) and under Adjust and Preset tabs create a new preset or manage existing ones. Repeat to create multiple Presets.



Settings Menu

S1: The Dashboard provides card status and other diagnostic information.

S2: Tools allow users to perform Backup and Restore operations or to download the latest software from the Barco Web site.

