

# Application Notes

## Barco-Encore Install Guide



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# 1

## Introduction

This Install Guide helps to connect and setup a Lightware Matrix to a Barco Encore Video Processor with a Controller.

### 1.1. Recommended Steps

- Step 1. Cabling
- Step 2. IP address setting
- Step 3. EDID management
- Step 4. Port and protocol settings
- Step 5. Encore setup

### 1.2. Step 1: Cabling

#### Video signals

Connect the source devices to the Matrix input ports.

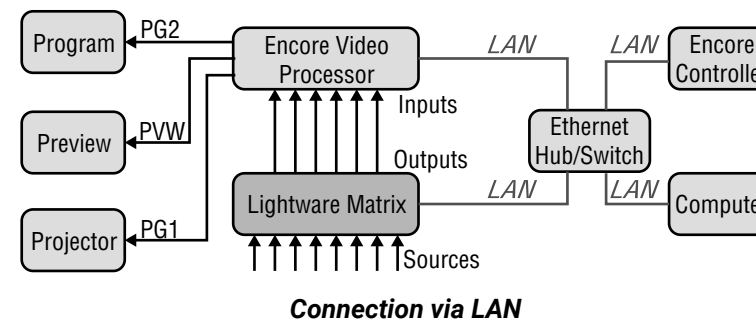
Connect the outputs of the Matrix to the Inputs of the Encore Video Processor:

LW Matrix Output	1	2	3	4	5	6	7	8
Video Processor Input	1A	1B	2A	2B	3A	3B	-	-

The number of the I/O ports and layers depends on the capabilities of your devices.

#### Connection via LAN (Figure 1)

The easiest way to build the system is to connect the Encore devices, Lightware matrix and a computer to the same Ethernet Hub/Switch. It is recommended to create a local subnet without connecting to other network. Use patch Ethernet cables; if you use a router, make sure that the DHCP is disabled as the IP addresses are set by the Encore controller.



### 1.3. Step 2: IP address setting

The IP addresses in the LAN are set by the Encore Controller. Connect to the Matrix by the Lightware Device Controller and check the following settings:

- Settings/Network tab: Select '**Obtain IP address automatically**'.
- Set the 'IP port' to #23.
- Apply the settings; Write down the IP address, it will be necessary during Encore setup.

INFO: The IP settings also can be done on the front panel of most Lightware matrices.

### 1.4. Step 3: EDID management

The matrix emulates an EDID for each source. The EDIDs have to be set according to the system needs. Connect to the matrix by the Controller Software, thus the I/O port parameter settings also can be done easily.

INFO: EDID management and other settings also can be done on the front panel LCD menu of most Lightware matrices.

### 1.5. Step 4: Port and protocol settings

Lightware routers have a special protocol, but to interoperate with other devices, another secondary protocol is also provided. The currently used protocol can be changed on the front panel.

INFO: If the secondary protocol is active, Controller Software cannot connect to the matrix.

- Switch the router to **TAKE** mode if used previously in **AUTOTAKE** mode by pressing the **TAKE** button for three seconds; light will go off.
- Press the **Control Lock** button for three seconds; it lights up in red continuously. (Some old matrices require only a short press.)
- Press and keep pressed the **Output Lock** button and the active protocol is displayed.
  - **Source 1 is lit:** Lightware protocol is active on serial port.
  - **Source 2 is lit:** Secondary protocol is active on serial port.
  - **Destination 1 is lit:** Lightware protocol is active on Ethernet port.
  - **Destination 2 is lit:** Secondary protocol is active on Ethernet port.
- Press Destination 2 button to select the Secondary protocol on the Ethernet port.

INFO: Some matrices can only use the same protocol on both serial and Ethernet ports. In this case only a source button is lit.

## 1.6. Step 5: Encore setup

### Controller and processor linking

The following screens and steps refer to the Encore Controller. Check if your Controller and Processor(s) are linked before doing below steps.

### Router specification

1. Select **System / Router Setup** from the menu.
2. Create a new router as seen on the screenshot:
  - Select the Manufacturer to **Extron**,
  - Choose the communication type; **Ethernet**,
  - Select the **Router type** (e.g. 'DVI')
3. Press the **Add new** button to save the settings.

INFO: When the Router is successfully added, the Router Name will be 'EXTRON1'.

### Communication settings (Ethernet)

1. Press the **Comm setup** button in the **Router Specification** menu.
2. Type the IP address of the Matrix and set the IP port to **23** as shown on the screenshot.
3. Press the **Test comm** button to check the communication.
4. Press the **Back** button to save settings.

### I/O numbers

1. Configure the input/output numbers of the Matrix in the **Router specification** according to your device; see the screenshot above.
2. Press **Add new** button to save the settings.

### Output patch settings

1. Select **System / Router Setup / Output Patch** from the menu.
2. Configure the connections that have been established when cabling to each other:

Router Output	1	2	3	4	5	6
Processor Input	1A	1B	2A	2B	3A	3B
Mixer Layer	3A	3B	2A	2B	1A	1B

3. Press **Add Patch** button to save settings.
4. Navigate to the next output to set.

### Input source patch settings

The controller's source buttons can be assigned to the inputs of the Video Processor.

1. Select **System / Input patch** from the menu.
2. Set the **Source number**, **Connection Type** and **Router Input** as seen on the screenshot.

Source number	1	2	3	4	5	6
Router input	1	2	3	4	5	6

3. Press the **Add Patch** button to save current patch settings.