BARCO

ImagePRO–4K Video Processor
Quick Start Guide - Setup

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ImagePRO–4K Video Processor: Rear-Panel Setup

Ethernet — Connect to Event Master Toolset or External Controller

DP 1.2 Input
HDMI 2.0 Input
12G SDI Input
12G SDI Input
12G SDI Input
12G SDI Input

AC — Connect to AC power source

Genlock BNC Input

Genlock Generated Reference Output

DP 1.2 Output
HDMI 2.0 Output
12G SDI Output
12G SDI Output
12G SDI Output
12G SDI Output
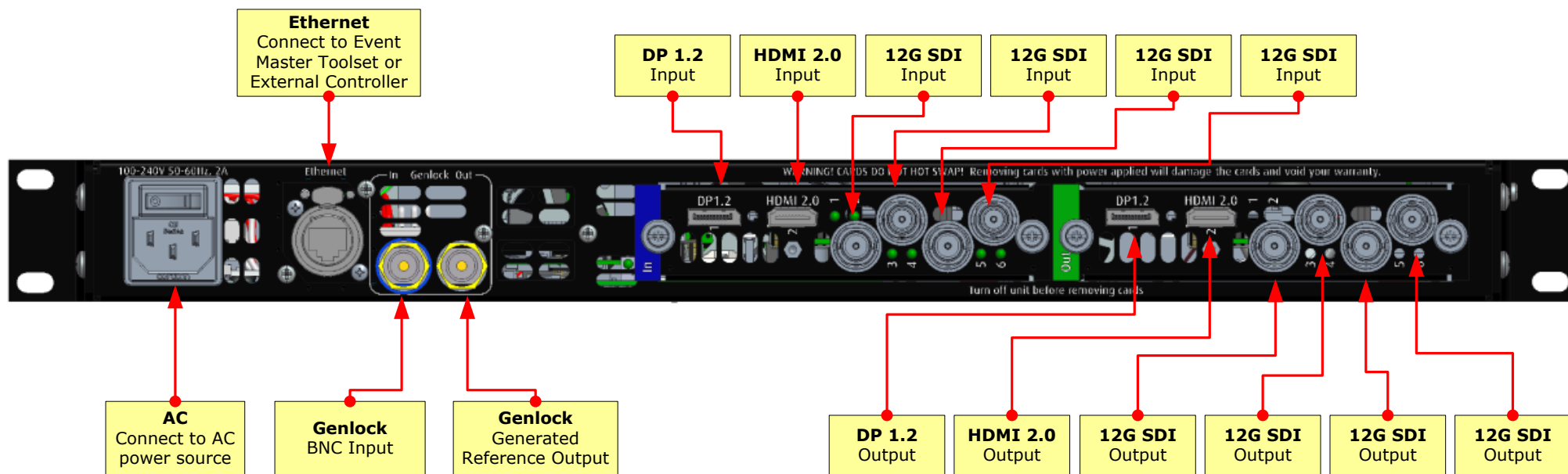
Quick install and setup

Getting started

1 — **Connect power** — Ensure that power is properly connected to the ImagePRO–4K.

2 — **Connect inputs** — Connect all input sources to the ImagePRO–4K.

3 — **Connect outputs** — Connect the output(s) on the ImagePRO–4K to your projector(s) or other target devices.

4 — **Turn on power** — Turn on power to the ImagePRO–4K, your projector(s), and to all peripheral equipment.

Note: To enter the Setup menu press the Adjust Knob.

5 — **Factory reset** — If you are using the ImagePRO–4K for the first time, or if you are using an ImagePRO–4K that has just returned from an event, perform a full factory reset to restore default system configurations.

Press the Adjust Knob to enter the Setup menu, then select **Reset / Factory** on the display screen. **Reset / Soft Reset** keeps the user settings.

Setting up outputs

6 — **Native Rate** — On the front panel, press the Adjust Knob to enter the Setup menu, then select **Setup / System menu** and select the desired Native Rate.

7 — **Assign primary output** — If the primary output is DP, proceed to the next step.

If your primary output is HDMI/SDI, go to **Setup / Output / AUX Adjustment** and update the primary output.

8 — **Adjust output format** — Go to **Setup / Output / AUX Adjustment** and update the output format.

9 — **Test output** — Turn on a test pattern, verify that you have an image, and make any necessary adjustments. When complete, turn off the test pattern.

Setting up an LED display

10 — **Position and adjust the image** — Use the LED Setup Menu to position the image on the LED wall or other display device, scale the image, adjust **Pan** and **Zoom** settings, and save your view.

Setting up inputs / source

11 — **Set and adjust inputs / source** — Select inputs / sources and make any necessary adjustments to color balance, timings, and so on.

Note: The ImagePRO–4K automatically acquires and configures inputs.

12 — **Save input / source configurations** — After adjusting an input / source, save the input /source configuration.
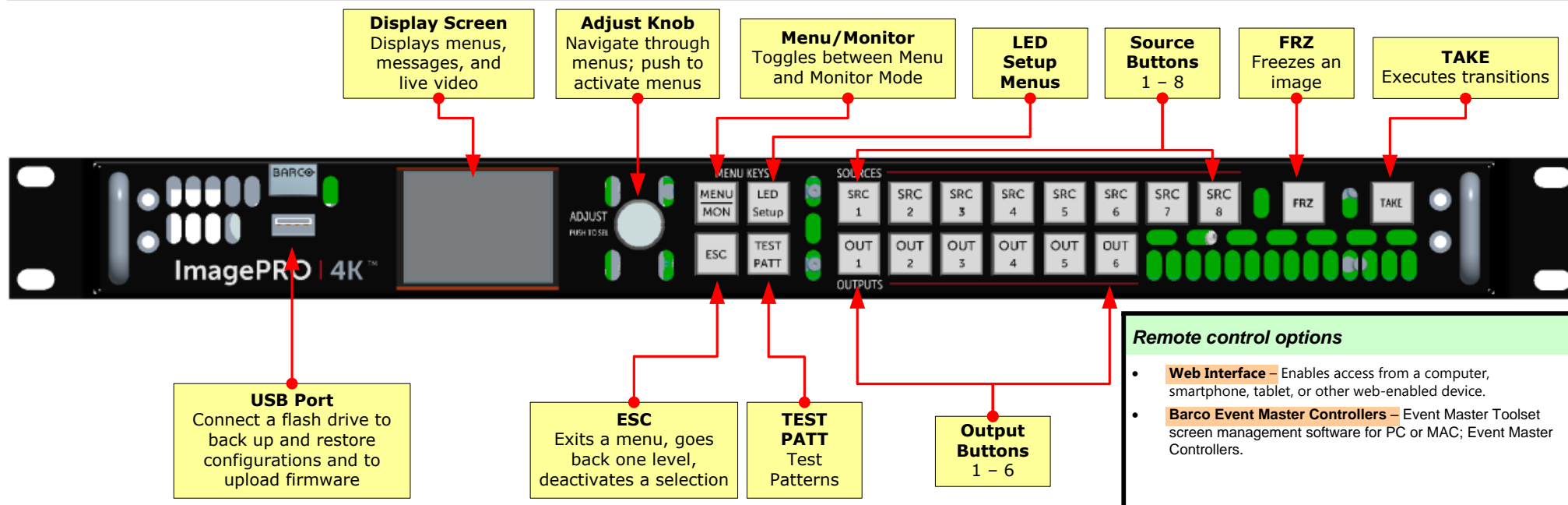
Repeat steps 11 and 12 for each input / source.

System settings

13 — **Adjust and save system settings** — Adjust system parameters such as Ethernet settings and HDCP parameters.

14 — **Save All** — Select **Save All**. **Save All** is the last menu item on the Setup page. **Save All** writes system settings to non-volatile memory.

ImagePRO–4K User's Guide

For complete details on all installation and operations procedures, please refer to the *ImagePRO–4K User's Guide* (R5906167).

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ImagePRO–4K Video Processor
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ImagePRO–4K Video Processor: Front-Panel Setup

Display Screen
Displays menus, messages, and live video

Adjust Knob
Navigate through menus; push to activate menus

Menu/Monitor
Toggles between Menu and Monitor Mode

LED Setup Menus

Source Buttons
1 – 8

FRZ
Freezes an image

TAKE
Executes transitions

USB Port
Connect a flash drive to back up and restore configurations and to upload firmware

ESC
Exits a menu, goes back one level, deactivates a selection

TEST PATT
Test Patterns

Output Buttons
1 – 6

Remote control options

- **Web Interface** – Enables access from a computer, smartphone, tablet, or other web-enabled device.
- **Barco Event Master Controllers** – Event Master Toolset screen management software for PC or MAC; Event Master Controllers.

Features overview

- 1RU rack-mount chassis
- Resolution up to 4096 x 2160 @ 60
- 4:4:4, 10-bit color (DP 1.2)
- Up to 6 inputs, each independently scaled to a different output resolution
- DisplayPort 1.2 I/O
- HDMI 2.0/HDCP 2.2 I/O
- 1.5G/3G/6G/12G SDI I/O
- Up to 2x 4K60 inputs and outputs simultaneously
- Dedicated Genlock BNC connector
- Ethernet connection on the rear panel
- A USB port on the front panel
- Programmable input EDID
- Sync output
- Custom output formats
- Output rotation (90/180/270 degrees)
- Seamless cut transition or fade through matte color or a logo

Adjust Knob and Display screen

Press the Adjust Knob to enter menus on the display screen and to make selections.
Turn the Adjust Knob to scroll up or down through the menus on the display screen.

Source-button states

- Brightly lit – Button is selected.

Green	—Signal is active and assigned to PVW.
Yellow	—Input source, still, logo, or matte color is present.
Amber	—Signal is active on the PGM outputs.
Red	—Loss of sync (LOS).
Blue	—Source is frozen.
Cyan	—A cue is mapped to the button (future).
Magenta	—A user key is mapped to the button (future).
White	—A preset is mapped to the button.

- Dimly lit – Source is mapped but not active.
- Not lit – Button is not mapped.

Output-button states

- Lit – Button is mapped, selected, or frozen.

Green	—Button is mapped to an Aux.
Amber	—Aux is selected to view in the front-panel monitor.
Blue	—Aux is frozen.

- Not lit – Button is not mapped.

Overview of key operations menus

Input Menu – Set input format; adjust brightness and contrast; adjust aspect ratio; set color balance; size the image; save and manage input configurations; manage Input HDCP settings.

Output (AUX) Menu – Set output format; detect output EDID; create an Area of Interest; adjust timing and colorspace; set effects such as sharpness, strobe mode, color inversion; manage Output HDCP settings.

Still Menu – Capture, rename, and delete stills. Set selected still as logo.

Preset Menu – Store and recall presets.

Transition Menu – Set transition timing and effects.

Button Mapping Menu – Map source and output buttons. SRC 1 – SRC 6 default to the inputs of the Tri-Combo input card; SRC 7 defaults to "Matte"; and SRC 8 defaults to "Logo." OUT 1 – OUT 6 default to OUT 1 as Aux Channel A, OUT 2 as Aux Channel B; OUT 3 – 6 are not mapped.

System Menu – Set system mode and parameters including Operation Mode and Native Rate; manage Genlock settings; USB Backup/Restore of configurations; set Ethernet options; lock front panel; run diagnostics.

Custom Format Menu – Create, save, delete custom input and output formats.

LED Setup Menu – Quickly set up output area of interest, input scaling, and save the settings.

Factory Reset – Restore factory default settings. Optionally, keep IP address and EDID settings.

Firmware Upgrade – Update ImagePRO-4K firmware from a flash drive.