# DX-100

## Video Processor for the FLX transformable LED

### Features

- Digital effects
- Color correction and enhancement
- External genlock
- Advanced delay modes
- Internal test patterns

### Inputs/Outputs

- Single/dual link DVI inputs
- EDID support
- SD-SDI/HD-SDI Input
- Genlock input
- Single-channel NNI output

### Control

- DTS (v2.03 or later)

### Mechanical

- Rack-mountable (5RU)
- Auto-ranging power supply

The DX-100 is a versatile video processor designed to control Barco's FLX transformable LED series. Using Barco's Director Toolset (DTS) application, the DX-100 provides a powerful and creative tool for stage designers and directors.

The DX-100 accepts single-link or dual-link DVI inputs (RGB/YCbCr), through a DVI-I connector, and SD-SDI or HD-SDI inputs (up to 1080i) via BNC. Internal signal processing is performed utilizing Barco's proprietary Athena scaling technology with a 12-bit minimum color depth. An advanced motion-adaptive de-interlacer converts interlaced or progressive segmented frame (PSF) inputs to progressive formats. Color correction and enhancement is also provided for all video inputs.

Designed to drive Barco's FLX-series LEDs, the DX-100 provides a single-channel output in the NNI format through an HDMI connector. Using Barco's Fiberlink NNI transceiver link, the DX-100 can be connected to FLX LEDs up to 300 meters away. In addition, to accommodate any production environment, three advanced delay reduction modes are provided: standard, minimum and reduced.

The DX-100 supports a variety of digital video effects such as freeze, strobe, and linear color transformations (e.g., monochrome and inverted video). The DX-100 can also be genlocked to an external reference, to a selected input, or set to free-run.

Several internal test patterns are provided that can be selected and configured from the DTS. Users can individually control each RGB primary, and set the test pattern into diagonal motion.

All input, output and communication connectors are located on the unit's rear panel.

BARCO

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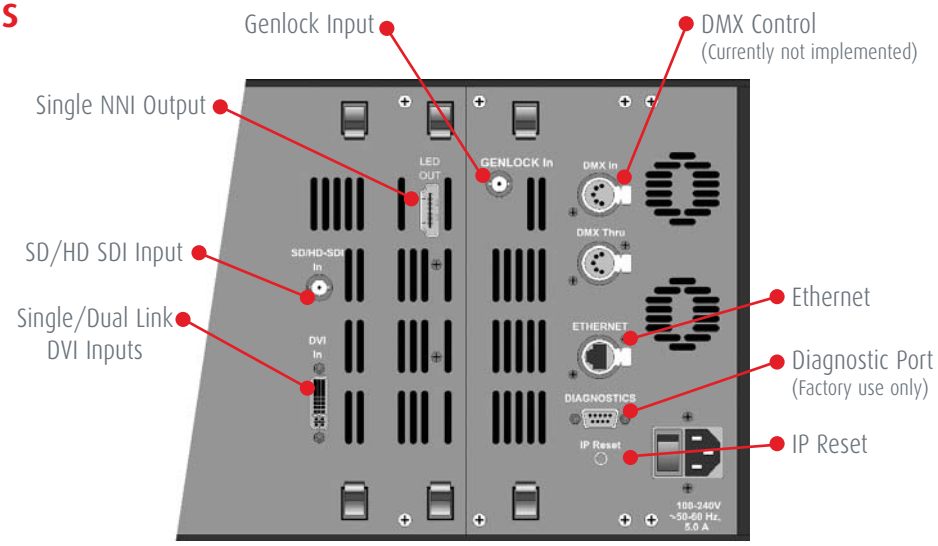
# DX-100 Front and Rear Panels


Rear Panel

# DX-100 Specifications

| | |
|---|---|
| **INPUTS** | |
| SDI | • NTSC/PAL per SMPTE 259M<br>• HD 720p per SMPTE 296M / HD 1080i per SMPTE 292M |
| DVI | • RGB/YCbCr<br>• All supported to maximum pixel rate: Single link (165MHz) / Dual link (240MHz) |
| **OUTPUT** | |
| NNI | Proprietary Barco format on an HDMI connector<br>Up to 2048 pixels either horizontally or vertically.<br>Maximum active area: 768K pixels<br>12 bits per RGB per pixel |
| **PROCESSING** | |
| Number of layers | 1 |
| Ext. Genlock | Composite sync signal (standard or tri -level) or black burst. Termination is 75 ohms, +/- 0.1%. |
| Video Delay | Min. delay mode: 2 ms<br>Reduced delay mode<br>Progressive sources: 2ms<br>Interlaced sources: 23ms @ 50Hz / 19ms @ 60Hz |
| **PHYSICAL AND ELECTRICAL** | |
| Power | Input 100-240 VAC, 50-60 Hz<br>Power consumption 180 watts maximum |
| Mechanical | H: 8.75 inches (22.22 cm)<br>W: 17.00 inches (43.18 cm)<br>W: 19.00 inches (48.26 cm) with rackmount wings<br>D: 17.00 inches (43.18 cm), excluding connectors and latches<br>5RU rackmount |
| Temperature | 0-40 degrees C |
| Humidity | 0-95% non-condensing |
| Chassis Weight | 52 lbs. (23.6 kg) |

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