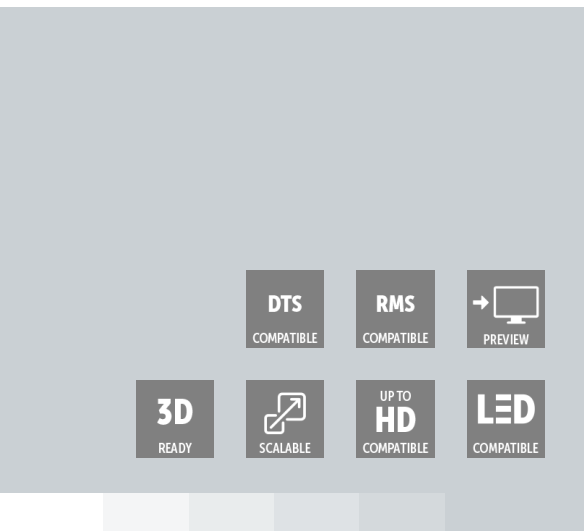


DX-700

Multi-window, versatile image processing unit for LED displays



- **Color calibration genlocking and color keying**
- **Versatile input and output modules**
- **Supports blending**
- **Wide variety of show effects**

Input Features

- Input modules provide "universal" connections for DVI (RGB or YCbCr), Dual-DVI (RGB), Component Analog (RGB or YPbPr), NTSC/PAL, CVBS or Y/C, SD-SDI, HD-SDI, and Dual HD-SDI formats. Multiple input modules can be assigned to a bank.
- All inputs except DVI provide a minimum 10-bit color depth, in either 4:4:4 or 4:2:2 format. An advanced motion-adaptive de-interlacer with diagonal filter converts interlaced or progressive segmented frame (PSF) inputs to progressive format.
- All processing is performed with a 12-bit minimum color depth.
- Dynamic contrast enhancement is available on any video input source.
- Input balancing can be applied to any input, with individual RGB adjustments.

Output Features

- Output modules are available in two formats: DVI (for current Barco tiles), and NNI (for next generation Barco tiles). Each module has three outputs that can drive independent LED walls, or which can be "grouped" to drive a single large LED wall.
- Up to two output modules can be included in a bank.
- Video layers can be alpha-blended (e.g., assigned an attribute of

- Video layers can be alpha-blended (e.g., assigned an attribute of invisible, opaque, or any level in between), regardless of layer priority.
- Color-keying is supported. Any input module may be designated as a key source.
- A variety of digital video effects are supported, including freeze, strobe, and linear color transformations (e.g., monochrome and inverted video).

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System Features

- Basic system configuration and adjustments are performed via front panel controls. Advanced configuration is performed using Director Toolset.
- Seven rear panel slots are provided for input and output modules. All modules are fully shielded and field-installable.
- Input and output modules can be configured into functional "banks" that create independent video processors capable of driving one or more LED walls.
- Ethernet, diagnostic, DMX and genlock ports reside on the System Module. Analog and digital monitor outputs are also provided.
- Rack-mountable chassis (5RU).

Genlock Features

- DX-700 can be genlocked to an external reference, to a selected input, or set to free-run.

Wizards

- Two convenient Wizards are provided. The Setup Wizard detects all tiles, configures outputs, and enables you to "group" outputs. The Input Wizard configures and scales inputs, and enables you to store "presets."

DX-700 configuration

PRODUCT SPECIFICATIONS

DX-700

Inputs	1 x Analog input (HD-15) ■ All resolutions supported to a maximum rate of 240MHz (progressive or interlaced scan). ■ 10-bits/color sampling 1 x 3-BNC input ■ All resolutions supported to a maximum rate of 240MHz (progressive or interlaced scan). ■ 10-bits/color sampling ■ Supports composite NTSC/PAL/Secam, S-Video (Y/C) and Component RGB or YPbPr w/Sync-on-G (Y) ■ Supports Tri-level sync 1 x DVI Digital input ■ All resolutions supported to a maximum rate of 165MHz (single-link) or 240MHz (dual-link). ■ Supports both RGB and YCbCr, progressive or interlaced. ■ Supports single-link and dual-link ■ Also used as Expansion Input port when linking units together 2 x HD/SD SDI input ■ 525/60 (NTSC) and 625/50 (PAL), per SMPTE 259M ■ HD 720p per SMPTE 296M, HD 1080i per SMPTE 292M ■ Supports single-link and dual-link ■ Dual-link HD-SDI modes supported per SMPTE 372M:
Outputs	Triple DVI-style connectors supporting the Barco Legacy 32MHz LED Output protocol. ■ Each output can drive a different type of Barco LED product. ■ Large displays can be driven by combining multiple outputs. ■ 2 output cards (6 outputs) are required to output 2K x 1080 to 1080 x 2K. Triple HDMI-style connectors supporting the Barco high-resolution NNI LED output protocol. ■ Large displays can be driven by combining multiple outputs. ■ The 2K x 1080 to 1080 x 2K output resolution can be achieved by combining the 3 outputs on a single NNI Output Module.

PRODUCT SPECIFICATIONS

DX-700

User Control

Front Panel Display

- VGA touch panel Display, Display setup wizard, Source setup wizard, Preset management menu, Source alignment menu, Display management, DX-700 management

Front Panel Buttons

- Six softkeys are used to access menus and activate functions.
- Five navigation buttons are used to navigate through menus and lists.
- Black button. This button places black on all outputs.
- Test pattern button. This button takes you directly to the Test Pattern Generator Menu.
- Presets button. This button takes you directly to the Preset Management Menu.

Remote Control

- Fully controllable over IP

Base unit

Width:

- 19" Rack

Height:

- 5RU

Input/Output Connectors

- All Input and Output connectors are located on the back.
- The connections with the system module are located on the back.

Power

- 100-240 VAC, 50-60 Hz, Auto selecting

Last updated: 26 Nov 2019

Technical specifications are subject to change without prior notice. Please check www.barco.com for the latest information.