

# XHD-400 series

High-performance media servers for end-to-end show design, creation, setup and control



- **Powerful projection mapping tool**
- **Easy 3D visualization of your show**
- **Simple to use**

Offering some very unique features, the Barco Media Servers are fully integrated visual production systems that enable video professionals to easily develop their show from idea to realization. Allowing you to quickly and easily set up, preview and manage your show environment, they form the perfect connection between your creative ideas and the display systems that bring them to life. The powerful XHD-400, XHD-402 and XHD-404 offer dedicated user interface outputs and are capable of managing 1 x 4K or 4 x 2K outputs.

## Powered by X-Agora

Barco couples its media server hardware with the X-Agora software. This software is scalable, compatible with popular media formats, supports connectivity with various sensors and input, and makes it possible to deploy content onto the most challenging surfaces with an advanced yet easy-to-use projection mapping tool. Its interactive media system captures and processes data in real-time, creating interactive media content for various types of displays.

## Why you'll love the Barco media servers

- Integrated end-to-end workflow software to create projects from design to show
- Unique and powerful 'Projection Study' tool takes the hard work out of creation
- Easy 3D visualization of show environment
- Simple to learn, use, and deploy
- Allows for interactivity

#### Projection study/3D simulation

- Video projection simulation and virtual projectors
- Luminance and pixel density visualization of the projections
- Shadow previewing
- Measuring tools
- External model importation (.FBX, OBJ., DWG. And SVG.)
- WYSIWYG interface for presenting the projector setup to a client
- Built-in tool for fast projector array creation (wizard)
- Multiple 3D views
- Projector stacking option

#### Content production templates

##### CONTENT TEMPLATE VIEWPOINTS

- Intuitive interface to choose creative viewpoints used in templates

##### TEMPLATE EXPORT

- Cinema 4D, 3DS MAX, MAYA templates for 3D productions through .FBX exportation
- 2D pixel space for compositing tools (After Effects)

##### CONTENT IMPORT

- Automatic content splitting for ultra-high resolution support on multiple computers
- Standalone media encoder from image sequences or other video formats

#### Timeline programming & show virtualization

- Generative content; particles and shaders
- TUIO/OSC support for interactivity
- Timeline transition tools
- Non-linear timeline playback with cross timeline "Timecues"
- Content previsualization on 3D model
- ArtNet output support
- 2D output for LCD/LED
- Low latency live input

#### On-site projector calibration and blending

- Projector calibration based on the real 3D model of the projected surface: reverse mapping technique
- Multi-user network system architecture using a virtual/physical target matching method on the surface features

- Automatic real-time edge blending computation when using the reverse mapping
- Support for multiple UV channels
- Support for dynamic mapping with virtual projections
- Simple warping tool
- 4 point keystone calibration
- Support for manual linear edge blending

#### Playback

- Black and white alpha mask support
- ArtNet output
- Each layer can be mapped and composited independently
- Projective texturing for timeline media
  - Video: Wide range of video codec supported
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Image: PNG with transparency, JPEG, BMP, TIFF.
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Audio: Uncompressed WAV, Stereo
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SMPTE: SMPTE input for timeline synchronization
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**PRODUCT SPECIFICATIONS****XHD-400 SERIES**

Channel outputs	4x DP 1.2
Designer outputs	1x DVI-D, 1x DP 1.2
Output resolution	Max. 4x HD@60fps
Video layers	Max. 8x HD
SMPTE input	Mini Jack
Capture cards	XHD-400: none XHD-402: 2x DVI-D  XHD-404: 4x 3GSDI
Genlock	XHD-400: none XHD-402: none  XHD-404: 2x RJ45, 1x BNC
EDID management	Software
Audio output	Balanced Audio XLR Connectors
USB	8x USB 3, 4x USB 2
Input voltage	100V AC, 220V AC
Networking	2x Gigabit Ethernet
Storage	512G SSD
Dimensions (WxLxH)	48 x 42 x 18 cm / 19 x 16.6 x 7 inches
Weight	13.6 kg / 30 lbs
Shipping weight	14.9 kg / 33 lbs

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Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.