

Barco Alchemy module

Integrated Cinema Media Processor (ICMP) - Option for Series 2 projectors



The Barco ICMP module combines the functionalities of an Integrated Cinema Processor (ICP) and media server into one single board and forms the core of the Barco Alchemy digital cinema projectors. Reducing the required hardware increases simplicity and reliability into the projection booth. The smart projector even detects potential operational errors and warns users in case of mishaps. It turns any Barco Series 2 projector into a full-fledged DCI-compliant projector and media server, and includes on-board storage. With rich alternative content inputs and the most powerful DCI decoding in the industry, the Barco ICMP is future-proof and greatly enhances your Barco Series 2 digital cinema projector. Great in TMS environments, a projector equipped with the Barco ICMP module operates as stand-alone in single screen applications. The Barco ICMP is DCI-compliant with the Compliance Test Plan (CTP) version 1.2.

Increased operational efficiency

Thanks to the embedded Barco Web Commander user-interface the projector can be controlled remotely, including show creation and scheduling. Configuration and setup can simply be performed by service technicians via Barco Communicator.

Future proof

When coupled with a single 4K digital cinema projector, the Barco Alchemy technology enables 4K 2D at 60 fps and 4K 3D images, supporting all standard and 2K 3D HFR DCI movies.

Unique benefits of Barco Alchemy technology

- Simple operation thanks to intuitive 'Barco Web Commander' user interface
- Fewer boxes lead to more reliability and ease-of-use
- Future-proof with higher resolutions at high frame rates and high bit-rates
- Includes storage and dedicated hardware RAID-5 controller
- Intelligent switching between resolutions and frame-rates in the same show
- Smart mixing of DCI and alternative content sources in the same show
- Rich alternative content inputs
- Easy upgrading of Series 2 projectors with Barco Alchemy module

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Product specifications

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Integrated Cinema Media Processor	DCI 4K 2D up to 60fps* DCI 4K 3D (24 or 30 fps per eye)* DCI High Frame Rates 2K 3D up to 120fps (60fps per eye) JPEG 2000 bit-rates up to 625Mbps Dual-channel color-correction MPEG-2 (4:2:0 and 4:2:2 up to 60fps) H.264** 2x DisplayPort 1.1a (up to 4K 2D 60fps and 4K 3D 30fps)*** 2x 3G-SDI inputs** 1x HDMI 1.4a input 2D and PCM audio / 4K 24fps (BluRay HD 3D on roadmap) 16x AES/EBU audio channels (2x RJ45) 8x GPI, 8x GPO (4x RJ45) 2x ETH for content connectivity & ingest 2x front-accessible USB 3.0 for fast ingest 2x front-accessible USB 2.0 Video watermarking: Civolution NexGuard Audio watermarking: Civolution Closed captioning devices: Support for SMPTE 430-10 * 4K 24fps is standard. For 4K 60p / 4K 3D on ICMP upgrade modules a license is required. Newly-built 4K Barco Alchemy projectors have the license standard included. ** In testing. *** On B&C series projectors, the DisplayPort inputs replace the DVI inputs of the Cinema Controller.
Integrated storage	1.9TB effective storage (RAID-5) 3x 1TB Hot-swappable 2.5" hard-drives
Barco Web Commander	Projector dashboard Projector control board Show player/editor/scheduler Automation, 3D, ingest Smart projector status Via HTML5 web browsers including iOS & Android tablets Compatible with free Barco CineMate iOS & Android app
Barco Commander (for touch panel controller)	Projector control board Show Player/Editor/Scheduler Automation, 3D, ingest Dynamic DCP playlists & intermission Smart projector status Dual projector passive 3D Auro 11.1 decoding Via HTML5 web-browsers including iOS & Android tablets
Barco Communicator	Projector installation & configuration Projector update & maintenance Barco CineMate App (iOS & Android) - free
Options	4K 60p / 4K 3D license* Auro 11.1 license Dual Projector license Live 3D*** Ghostbusting*** * 4K 24fps is standard. For 4K 60p / 4K 3D on ICMP upgrade modules a license is required. New-built 4K Barco Alchemy projectors have the license standard included *** Software roadmap