

Barco Alchemy ICMP

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

PRODUCT SPECIFICATIONS

BARCO ALCHEMY ICMP

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) 2x HDMI2.0a (up to 4K 2D 60fps) 2x 3G-SDI inputs 16x AES/EBU audio channels (2x RJ45) 8x GPI, 8x GPO (4x RJ45) 2x Gbe for content connectivity & ingest 2x front-accessible USB 3.0 for fast ingest 2x front-accessible USB 2.0 Video and audio watermarking: Civolution NexGuard Closed captioning devices: Support for SMPTE 430-10 Streaming of Live IP content
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
Barco Communicator	Projector installation & configuration Projector update & maintenance Barco CineMate App (iOS & Android) -free
Integrated storage	2TB effective storage (RAID-5) / 3x 1TB Hot-swappable 2.5" hard-drives 4TB effective storage (RAID-5) / 3x 2TB Hot-swappable 2.5" hard-drives
Options	ICMP License for HDMI2.0 HDR ICMP License for Live IP
Compatibility	Barco Alchemy is supported by the following Theater Management System (TMS) brands: AAM Screenwriter, Ymagis Melody, CFG-Barco, Unique RosettaBridge, ADDE, CinéDigital Manager, GDC, Proyecson, Real Image, Sony, Hollywoodsoftware/Comscore TCC, Kinoton Barco Alchemy is supported by 4DX Experience

Last updated: 24 Feb 2021

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