DP2K-12C

Compact DLP Barco Alchemy Cinema projector for screens up to 12m (39ft)

The Barco Alchemy DP2K-12C is a compact and fully integrated digital cinema projector, based on Texas Instruments' proven 0.98" DLP Cinema® chip. It ensures a first-class movie experience with consistent picture brightness, rich contrast and vibrant colors. By merging the projector and media server functionalities into one module, the DP2K-12C Barco Alchemy projector is a full-fledged, **DCI-compliant projector and media-server solution** that includes on-board storage. Reducing the required hardware, it increases **simplicity and reliability**. The smart projector even detects potential operational errors and warns users if, for instance, a scheduled show is missing assets or KDMs. Great in **TMS environments**, it operates **stand-alone in single-screen applications**. Thanks to the embedded **Barco Web Commander** user interface, shows can be created and scheduled remotely.

Low cost of ownership

Geared with the integrated Barco Alchemy technology that drives operational and maintenance costs down, the DP2K-12C offers superior image processing, pristine images and ultimate reliability at a low TCO.

Easy operation and maintenance

The DP2K-12C comes with the 'Barco Web Commander' screen management system featuring an intuitive user interface. The projector detects potential operational errors and warns users if, for instance, a scheduled show is missing assets or KDMs. It also has an easy-to-use, fully modular architecture for simple serviceability and higher uptime.

The DP2K-12C projector is also available in a package with a third-party media server and it can be ordered without the Barco Alchemy module as well.

Unique benefits of Barco Alchemy technology

· Combines media server functionalities with cinema processing electronics
· Fewer boxes lead to more reliability and ease-of-use
· Simple operation thanks to intuitive 'Barco Web Commander' user interface
· Easy upgrading of Series 2 projectors with Barco Alchemy module

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Product specifications	DP2K-12C
Digital MicroMirror Device™	3 x 0.98" DC2K dark metal devices
Native resolution	2,048 x 1,080 pixels
Housing	Hermetically sealed DMDs and optical assembly
Lamp	1.2kW - 2kW
Light output	9,500 lumens
Screen size	Up to 12m / 39ft wide (screen gain 1.2 @ 14ftl)
Prime lenses	1.2 - 1.8 1.4 - 2.05 1.6 - 2.5 1.95 - 3.2 2.4 - 3.9
Control I/O	3x Ethernet 8x GPIO (DB 25) 3D interface USB RS-232 interface (DB9)
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 DisplayPort 1.1a (up to 4K 2D 60fps and 4K 3D 30fps)** 2x 3G-SDI inputs 1x HDMI 1.4a (up to 4K 2D 24fps, support for BluRay 3D) 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 watermarking: Civolution NexGuard Audio watermarking: Civolution Closed captioning devices: Support for SMPTE 430-10 * 4K 24fps is standard. For 4K 60 fps / 4K 3D on ICMP upgrade modules a license is required. Newly-built 4K Barco Alchemy projectors have the license standard included. ** 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 3.9TB effective storage (RAID-5) / 3x 2TB Hot-swappable 2.5" hard-drives
Barco Web Commander	Projector Dashboard Projector Control Board Show Player/Editor/Scheduler Automation, 3D, Ingest Dynamic DCP playlists & intermission TMS integration Smart Projector Status Via HTML5 web-browsers including iOS & Android tablets Dual projector 3D: passive and active Auro 11.1 decoding
Barco Communicator	Projector installation & configuration Projector update & maintenance
Projector diagnostics	via Integrated Media Server via Communicator control software via SNMP agent
Power requirements	220V
Dimensions	558(H) x 694(W) x 1034(D) mm 22.0(H) x 27.3(W) x 40.7(D) inch NB.: min. 5 cm of air inlet spacing required at the bottom of projector
Weight	100kg (220lbs)
Ambient temperature	35°C / 95°F Max.

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Options	Barco CineMate App (iOS & Android) - free 3D add-ons Touch screen monitor, inc. Barco Commander & Communicator Pedestal CineCare Web Auro 11.1 license Barco Escape license Dual-projector license Live 3D*** Ghostbusting*** ** In testing *** Software roadmap

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