

# DP2K-12C

Compact DLP Barco Alchemy Cinema projector (9,500 lumens)



- **Small footprint, budget-friendly performance**
- **Integrated, DCI-compliant**
- **Combines media server functionalities with Series 3 cinema processing electronics**

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, DCI image quality 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
- Budget-friendly solution with minimal cost of ownership thanks to integrated Barco Alchemy technology, re-usable filters, low maintenance, etc.
- Includes storage
- Maximum ease-of-use through intuitive 'Barco Web Commander' screen management system, running via a web browser
- Barco Communicator for simple configuration and updates of all modules in the projector
- Consistent image quality and brightness thanks to the proprietary sealed engine and advanced DMD cooling
- Easy installation and maintenance thanks to proven modular design and shared components with the other Barco DP2K B-series projectors

**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
Contrast ratio	2000:1
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 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 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.
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

**PRODUCT SPECIFICATIONS****DP2K-12C**

---

<b>Barco Web Commander</b>	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
<b>Barco Communicator</b>	Projector installation & configuration Projector update & maintenance
<b>Projector diagnostics</b>	via Integrated Media Server via Communicator control software via SNMP agent
<b>Power requirements</b>	220V
<b>Dimensions</b>	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
<b>Weight</b>	100kg (220lbs)
<b>Ambient temperature</b>	35°C / 95°F Max.
<b>Exhaust airflow</b>	240 – 280 cfm (6,8 – 8 m <sup>3</sup> /min)
<b>Options</b>	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*** ** In testing *** Software roadmap

---

**Last updated: 20 Dec 2018**

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