

# DP2K-23B

Ultra-bright DLP Barco Alchemy Cinema projector for screens up to 23m (75ft)



The Barco Alchemy DP2K-23B is an ultra-bright and fully integrated digital cinema projector for theaters with screens up to 23m (75ft) wide, based on Texas Instruments' 1.2" DLP Cinema® chip, ensuring exceptional image quality for a premium movie experience in 2D and 3D. By merging the projector and media server functionalities into one projector module, the DP2K-23B Barco Alchemy projector is a full-fledged, **DCI-compliant projector and media-server solution** with **on-board storage**. Reducing the required hardware, it increases **simplicity and reliability**. The smart projector even detects potential operational errors and warns users in case of mishaps. 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-23B offers superior image processing, pristine images and ultimate reliability at a low TCO.

## Easy maintenance and operation

The DP2K-23B comes with the intuitive 'Barco Web Commander' user interface for easy operation. The projector detects potential operational errors and warns users if, for instance, a scheduled show is missing assets or KDMs. It also has a modular architecture for simple serviceability and higher uptime.

The DP2K-23B 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

**BARCO**

Visibly yours

**Product specifications****DP2K-23B**

<b>Digital MicroMirror Device™</b>	3 x 1.2" DC2K dark metal devices
<b>Native resolution</b>	2048 x 1080 pixels
<b>Housing</b>	Hermetically sealed DMDs and optical assembly
<b>Lamp</b>	1.2kW - 4kW (Xenon lamp)
<b>Light output</b>	24,500 lumens
<b>Screen size</b>	Up to 23 m / 75ft wide
<b>Contrast ratio</b>	2,000:1
<b>Prime lenses</b>	1.25 - 1.45 1.4 - 2.05 1.6 - 2.35 1.8 - 2.8 2.15 - 3.6 2.8 - 5.5
<b>Control I/O</b>	3x Ethernet 8x GPIO (DB 25) 3D Interface USB RS-232 interface (DB9)
<b>Integrated Cinema Media Processor</b>	JPEG2000 2K & 4K DCI play-out High Frame Rates 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 2x 3G-SDI inputs* 1x multimedia HDMI 1.4a input (BluRay 3D / 4K)* 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  * in testing ** software roadmap
<b>Integrated storage</b>	1.9TB effective storage (RAID-5) 3x 1TB Hot-swappable 2.5" hard-drives
<b>Barco Web Commander</b>	Projector Dashboard Projector Control Board Show Player/Editor/Scheduler Automation, 3D, Ingest TMS integration Smart Projector Status Via HTML5 web-browsers including iOS & Android tablets.
<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>	604(H) x 754(W) x 1129(D) mm 23.78(H) x 29.69(W) x 44.45(D) inch NB.: min. 5 cm of air inlet spacing required at the bottom of projector
<b>Weight</b>	133 kg (293 lbs)
<b>Ambient temperature</b>	35°C / 95°F Max.
<b>Options</b>	Barco CineMate App (iOS & Android) - free ACS-2048 3D add-ons Touch screen monitor, inc. Barco Commander & Communicator Pedestal CineCare Web Auro 11.1 license** Live 3D*** Ghostbusting*** ** In testing *** Software roadmap

Generated on: 02 May 2014  
Technical specifications are subject to change without prior notice.  
Please check [www.barco.com](http://www.barco.com) for the latest information.