

DP2K-23B

Bright DLP Barco Alchemy Cinema projector for screens up to 23m (75ft)



- **Brightest images, lowest operating cost**
- **Integrated, DCI-compliant, future-proof projector**
- **Combines media server functionalities with Series 3 cinema processing electronics**

The Barco Alchemy DP2K-23B is a 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

PRODUCT SPECIFICATIONS**DP2K-23B**

| | |
|-----------------------------------|--|
| Digital MicroMirror Device™ | 3 x 1.2" DC2K dark metal devices |
| Native resolution | 2048 x 1080 pixels |
| Housing | Hermetically sealed DMDs and optical assembly |
| Lamp | 1.2kW - 4kW (Xenon lamp) |
| Light output | 24,500 lumens |
| Screen size | Up to 23 m / 75ft wide |
| Contrast ratio | 2,000:1 |
| 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) 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 BarcoAlchemy 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 |
| 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 | 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 |
| Weight | 133 kg (293 lbs) |
| Ambient temperature | 35°C / 95°F Max. |
| Exhaust airflow | 350 – 390 cfm (10 – 11 m ³ /min) |

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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***
*** Software roadmap

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