

# DP2K-10S

Small DLP Barco Alchemy Cinema projector for screens up to 10m (33ft) wide



The DP2K-10S projector is a compact, fully integrated digital cinema projector designed for smaller theaters, boothless cinemas and single screens. By merging the projector and media server functionalities into one single projector module, the DP2K-10S 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** in the projection booth. And for additional reliability, the smart projector 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.

## Ultimate image quality

Built upon Barco's renowned DP2K cinema projectors, the DP2K-10S guarantees crisp images over time thanks to its acclaimed manual color convergence mechanism. While its standard Xenon lamps offer vibrant colors, its motorized lenses ensure a perfect image ratio at all times.

## Low cost of ownership

Geared with integrated technology that drives operational and maintenance costs down, the DP2K-10S offers pristine images and ultimate reliability at a low TCO. As such, it is the perfect choice for exhibitors looking for a worry-free solution to go digital with a minimal hassle and risk.

The DP2K-10S 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-10S**

| Preliminary technical specifications. These are subject to change without prior notice. |   |
|---|---|
| <b>Digital MicroMirror Device™</b>  | 3 x 0.69" DC2K dark metal devices   |
| <b>Native resolution</b>  | 2,048 x 1,080 pixels  |
| <b>Housing</b>  | Hermetically sealed DMDs and optical assembly   |
| <b>Lamp</b>   | 2.2kW, short-arc Xenon  |
| <b>Light output</b>   | 9,000 lumens  |
| <b>Screen size</b>  | Up to 10m/33 ft wide (screen gain 1.2 @ 14ftl)  |
| <b>Contrast ratio</b>   | 1,850:1   |
| <b>Prime lenses</b>   | Fully motorized<br>1.2 - 1.7<br>1.34 - 1.9<br>1.5 - 2.15<br>1.7 - 2.55<br>2.0 - 3.9   |
| <b>Control I/O</b>  | 3x Ethernet (RJ 45)<br>8x GPIO (DB 25)<br>3D interface<br>USB interface   |
| <b>Integrated Cinema Media Processor</b>  | DCI 4K 2D up to 60fps*<br>DCI 4K 3D (24 or 30 fps per eye)*<br>DCI High Frame Rates 2K 3D up to 120fps (60fps per eye)<br>JPEG 2000 bit-rates up to 625Mbps<br>Dual-channel color-correction<br>MPEG-2 (4:2:0 and 4:2:2 up to 60fps)<br>2x Displayport<br>2x 3G-SDI inputs<br>1x HDMI 1.4a (up to 4K 2D 24fps, support for BluRay 3D)<br>16x AES/EBU audio channels (2x RJ45)<br>8x GPI, 8x GPO (4x RJ45)<br>2x Gbe for content connectivity & ingest<br>2x front-accessible USB 3.0 for fast ingest<br>2x front-accessible USB 2.0<br>Video watermarking: Civolution NexGuard<br>Audio watermarking: Civolution<br>Closed captioning devices: Support for SMPTE 430-10<br>* 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. |
| <b>Integrated storage</b>   | 1.9TB effective storage (RAID-5) / 3x 1TB Hot-swappable 2.5" hard-drives<br>3.9TB effective storage (RAID-5) / 3x 2TB Hot-swappable 2.5" hard-drives  |
| <b>Barco Web Commander</b>  | Projector Dashboard<br>Projector Control Board<br>Show Player/Editor/Scheduler<br>Automation, 3D, Ingest<br>Dynamic DCP playlists & intermission<br>TMS integration<br>Smart Projector Status<br>Via HTML5 web-browsers including iOS & Android tablets<br>Dual projector 3D: passive and active<br>Auro 11.1 decoding  |
| <b>Barco Communicator</b>   | Projector installation & configuration<br>Projector update & maintenance  |
| <b>Power requirements</b>   | 220 V   |
| <b>Projector dimensions (HxWxD)</b>   | 325 x 626 x 925 mm<br>12.8 x 24.7 x 36.4 inch   |
| <b>Projector weight</b>   | Recessed handles for easy carrying<br>56.5 kg / 125 lbs for carrying (lamp-house removed)<br>(66.5 kg / 147 lbs total weight)   |
| <b>Ambient temperature</b>  | 35°C / 95°F Max.  |
| <b>Exhaust airflow</b>  | 140 – 180 CFM (4 – 5 m <sup>3</sup> /min)   |

## Product specifications

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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