

DP2K-8S

Small DLP Barco Alchemy Cinema projector (6,000 lumens)



- **Integrated, DCI-compliant projector**
- **Combines media server functionalities with Series 3 cinema processing electronics**

The DP2K-8S projector is Barco's most compact, fully integrated digital cinema projector designed for smaller theaters, boothless cinemas and single screens. By merging the projector and media server functionalities into a single projector module, the DP2K-8S 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, the projector operates stand-alone in single-screen applications. Thanks to the embedded Barco Web Commander user interface, shows can be created and scheduled remotely.

DCI image quality

Built upon the proven benefits of Barco's renowned DP2K cinema projectors, the DP2K-8S 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 total cost of ownership

Geared with integrated technology that drives operational and maintenance costs down, the DP2K-8S offers DCI quality 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-8S 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.

Benefits of Barco Alchemy



- 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' SMS
- Easy upgrading of Series 2 projectors with Barco Alchemy module
- Specifically designed for smaller theatres, independent cinemas, art houses, boothless cinemas and single screens
- Low cost of ownership thanks to integrated Barco Alchemy technology, included storage, stand by eco-mode, reusable air filters, and shared components with other Barco projectors
- Superior image quality thanks to excellent brightness, rich contrast and vibrant colors
- DCI image quality at all times thanks to the easy-to-use manual convergence mechanism
- Wide range of motorized lenses for a correct image ratio
- Maximum ease-of-use through intuitive Barco Web Commander Screen Management System, running via a web
- 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 to transport, install and service thanks to its integrated handles, user-friendly software tools and smart modular architecture

Product specifications**DP2K-8S**

General specifications	
Housing	Hermetically sealed DMDs and optical assembly
Lamp	1.6kW, short-arc Xenon
Light output	6,000 lumens (1.6kW lamp)
Screen size	Up to 8m/26 ft wide (screen gain 1.0 @ 14ftl)
Contrast ratio	1,850:1
Digital MicroMirror Device™	3 x 0.69" DC2K dark metal devices
Native resolution	2,048 x 1,080 pixels
Prime lenses	Fully motorized 1.2 -1.7 1.34 -1.9 1.5 -2.15 1.7 -2.55 2.0 -3.9
Control I/O	3x Ethernet (RJ 45) 8x GPIO (DB 25) 3D interface USB interface
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
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

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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
Power requirements	220 V
Projector dimensions (HxWxD)	325 x 625 x 910 mm 12.8 x 24.6 x 35.8 inch
Projector weight	Recessed handles for easy carrying 56.5 kg / 125 lbs for carrying (lamp-house removed) (66.5 kg / 147 lbs total weight)
Ambient temperature	35°C / 95°F Max.
Exhaust airflow	140 – 180 CFM (4 – 5 m ³ /min)
Safety requirements	Class 1 risk group 3
Options	3D add-ons Touch screen monitor, inc. Barco Commander & Communicator Pedestal CineCare Web Auro 11.1 license Barco Escape license Live 3D*** *** Software roadmap

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