DP4K-19B

Bright 4K DLP Barco Alchemy Cinema projector (19,000 lumens)

- **4K resolution**

- **Integrated, DCI-compliant projector**

- **Combines media server functionalities with Series 3 cinema processing electronics**

The Barco DP4K-19B is a bright 4K cinema projector designed for bigger screens. Featuring TI's 1.38" DLP Cinema® chip, the DP4K-19B offers stunning 4K images with superb brightness and vibrant colors to ensure a razor-sharp movie experience. By merging the projector and media server functionalities into one projector module, the DP4K-19B 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 integrated Barco Alchemy technology that drives operational and maintenance costs down, the DP4K-19B offers superior image processing, pristine images and ultimate reliability at a low TCO.

Easy maintenance and operation

The DP4K-19B 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.

- Enhanced 4K resolution at high frame rates and ultimate brightness

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- Barco's 4K digital cinema projectors are the first to show 4K movies at 60 fps and 4K 3D content on a single projector

- Highest bit rates ensure pristine content at all times, also at high frame rates

- Lowest cost of ownership thanks to integrated Barco Alchemy technology, re-usable filters, low maintenance, etc.

- 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

- Long-term image quality and brightness thanks to Barco proprietary sealed engine and advanced DMD cooling

- Coolest 4K engine for enhanced lifetime thanks to Barco's patented, advanced DMD cooling

- Easy installation and maintenance thanks to proven modular design and common platform with DP2K series

PRODUCT SPECIFICATIONS	DP4K-19B
Digital MicroMirror Device™	3 x 1.38" DC4K dark metal devices
Native resolution	4,096 x 2,160 pixels
Housing	Hermetically sealed DMDs and optical assembly
Lamp	1.2kW -3kW (Xenon lamp)
Light output	19,000 lumens (3 kW lamp)
Screen size	Up to 19m / 62 ft wide
Contrast ratio	1,850:1
Control I/O	3x Ethernet (RJ 45) 3D interface USB RS-232 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 * 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. ** On B&C series projectors, the DisplayPort inputs replace the DVI inputs of the Cinema Controller.
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
Power requirements	200-240V 30A 50-60Hz 19,000 BTU/hr (with 4kW lamp)
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	134 kg (295 lbs)
Ambient temperature	35°C / 95°F Max.
Exhaust airflow	350 – 390 cfm (10 – 11 m^3/min)
Standard Features	CLO (Constant Light Output) Powerful SNMP agent Motorized/memorized lens (focus, zoom & shift) Advanced patented DMD cooling
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 projection license 4K 60p/ 4K 3D license (included) Live 3D*** *** Software roadmap

Last updated: 12 Dec 2018

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

ENABLING BRIGHT OUTCOMES

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