

DP2K-20C

Compact DLP Barco Alchemy Cinema projector (18,500)



- **Small footprint, budget-friendly performance**
- **Integrated, DCI-compliant projector**
- **Combines media server functionalities with Series 3 cinema processing electronics**

The Barco Alchemy DP2K-20C is a compact and fully integrated digital cinema projector for theaters with screens up to 20m (65ft) wide, based on Texas Instruments' 0.98" DLP Cinema® chip. It ensures a first-class movie experience with consistent picture brightness, rich contrast and vibrant colors. By merging the projector and media server functionalities into one projector module, the DP2K-20C 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-20C offers superior image processing, pristine images and ultimate reliability at a low TCO.

Easy maintenance and operation

The DP2K-20C comes with the intuitive 'Barco Web Commander' user interface for easy operation. It 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-20C 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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- Budget-friendly solution with minimal 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
- Consistent image quality and brightness thanks to the proprietary sealed engine and advanced DMD cooling
- Easy installation and maintenance thanks to proven modular design and shared components with the other Barco DP2K B-series projectors

Product specifications**DP2K-20C**

General specifications	
Digital MicroMirror Device™	3 x 0.98" DC2K dark metal devices
Native resolution	2,048 x 1,080 pixels
Housing	Hermetically sealed DMDs and optical assembly
Lamp	1.2kW -4kW
Light output	18,500 lumens
Screen size	Up to 20m / 65ft wide (screen gain 1.8 @ 14ftl)
Contrast ratio	2,000:1
Prime lenses	1.2 -1.8 1.4 -2.05 1.6 -2.5 1.95 -3.2 2.4 -3.9
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) 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

Product specifications**DP2K-20C**

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	558(H) x 694(W) x 1034(D) mm 22.0(H) x 27.3(W) x 40.7(D) inch NB.: min. 5 cm of air inlet spacing required at the bottom of projector
Weight	102kg (225lbs)
Ambient temperature	35°C / 95°F Max.
Exhaust airflow	240 – 280 cfm (6,8 – 8 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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