

DP2K-20C

Compact DLP Barco Alchemy Cinema projector for screens up to 20m (65ft)



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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| Product specifications | DP2K-20C |
| 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 1x HDMI 1.4a (up to 4K 2D 24fps, support for BluRay 3D) 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 | 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 |

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***
Ghostbusting***
*** Software roadmap