

# DP2K-20C

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



- Small footprint, budget-friendly performance
- Integrated, DCI-compliant, future-proof 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

**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<br>1.4 - 2.05<br>1.6 - 2.5<br>1.95 - 3.2<br>2.4 - 3.9  |
| Control I/O                       | 3x Ethernet<br>8x GPIO (DB 25)<br>3D interface<br>USB RS-232 interface (DB9)   |
| Integrated Cinema Media Processor | 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 HDMI2.0a (up to 4K 2D 60fps)<br>2x 3G-SDI inputs<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.<br>Newly-built 4K Barco Alchemy projectors have the license standard included. |
| Integrated storage                | 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   |
| Barco Web Commander               | 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   |
| Barco Communicator                | Projector installation & configuration<br>Projector update & maintenance   |
| Projector diagnostics             | Via Integrated Media Server<br>via Communicator control software<br>via SNMP agent   |
| Power requirements                | 220V   |
| Dimensions                        | 558(H) x 694(W) x 1034(D) mm<br>22.0(H) x 27.3(W) x 40.7(D) inch<br>NB.: min. 5 cm of air inlet spacing required at the bottom of projector  |
| Weight                            | 102kg (225lbs)   |

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|---------------------|---|
| Ambient temperature | 35°C / 95°F Max.  |
| Exhaust airflow     | 240 – 280 cfm (6,8 – 8 m <sup>3</sup> /min)   |
| Options             | Barco CineMate App (iOS & Android) - free<br>3D add-ons<br>Touch screen monitor, inc. Barco Commander & Communicator<br>Pedestal<br>CineCare Web<br>Auro 11.1 license<br>Barco Escape license<br>Dual-projector license<br>Live 3D***<br>*** Software roadmap |

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Last updated: 01 Sep 2017

Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.