DP4K-32B

Bright 4K Barco Alchemy DLP Cinema projector for screens up to 32m (105ft)







The Barco DP4K-32B is a bright 4K cinema projector for screens up to 32m (105ft). Featuring TI's 1.38" DLP Cinema® chip, the DP4K-32B offers stunning 4K images with superb brightness and vibrant colors to ensure a razor-sharp movie experience on premium cinema screens. By merging the projector and media server functionalities into one projector module, the DP4K-32B 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.

Future-proof technology for an enthralling movie experience

A single DP4K-32B Barco Alchemy projector can truly elevate the movie experience by enabling 4K 2D to be shown at 60 fps and 4K 3D images. It also shows uncompressed 4K 60 fps alternative content for crisp images.

Low cost of ownership

Geared with integrated Barco Alchemy technology that drives operational and maintenance costs down, the DP4K-32B offers superior image processing, pristine images and ultimate reliability at a low TCO.

The DP4K-32B 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
- · A single DP4K-32B projector shows 4K movies at 60 fps and 4K 3D content
- · Fewer boxes lead to more reliability and ease-of-use
- \cdot Simple operation thanks to intuitive 'Barco Web Commander' user interface
- · Easy upgrading of Series 2 projectors with Barco Alchemy module



Product specifications

DP4K-32B

Digital MicroMirror Device™ 3 x 138° DC4C dark metal devices Native resolution 4,966 x 2,160 pixes Hemmetically sealed DM05 and optical assembly Lamp 3,867 78W (Cenon Jamp) Light output 33,000 tumens (See Valling tactory installed) Controst xotio 1,830-1 Prime lenses 1,181-16 1.27 - 1.8 6 1,45 - 2.13 1.63 - 2.5 3 2,53 - 4.98 equivalent throw ratios for 4K 1,38° DMD Control I/O 3 K themet 8x CPPI (DB 25) 30 interface 1.58 × 5.22 interface (DB9) Integrated Cinema Media Processor DCI 4K 2D up to 60(pg² DCI 4K 2D up to 60(pg² 2.90 to 48 (pg² cg²) DV 4K 3D (2.4 or 30 figs per eye?) 2.90 to 48 (pg² cg²) PROCEDID Bit Frace up to 6.25 kilops 2.90 to 48 (pg² cg²) DV 4K 3D (2.4 cg² and 4.2 cg² up to cg²) 2.90 to 48 (pg² cg²) DV 4K 3D (2.4 cg² and 4.2 cg² up to cg²) 2.90 to 48 (pg² cg²) Prime Frace up to 4 K 2D (dbg²) 2.90 to 48 (pg² cg²) DV 4K 3D (2.4 cg² and 4.2 cg² up to cg²) 2.90 to 48 (pg² cg²) Light Frace up to 48 (pg² cg²) 2.90 to 69		
Hermetically sealed DMDs and optical assembly	Digital MicroMirror Device™	3 x 1.38" DC4K dark metal devices
Lamp 3kW - 7kW (Xenon lamp) Light output 33,000 lumens (6,5 kW lamp factory installed) (more than 34,000 lumens using 7kW lamp) Screen size Up to 32m / 105 ft wide Contrast ratio 1,850-1 Prime lenses 113 - 1.66 1.27 - 1.38 1.75 - 2.13 1.95 - 2.25 2.38 - 4.98 culvalent throw ratios for 4K 1.38* DMD Control I/O 3k Fibrenet 8k GPID (IB 25) 30 levirles (DBS) Integrated Cinema Media Processor DCI 4K 2D Up to 60fbs* 20 lot 60fbs	Native resolution	4,096 x 2,160 pixels
Light output 33,000 lumens (6.5kW lamp factory installed) (more than 34,000 lumens using 7kW lamp) Screen size Up to 37m / 105 ft wide Contrast ratio 1,850-1 Prime lenses 1,850-1 1.33 - 1.66 1.27 - 183 3 1.63 - 2.53 - 1.95 - 3.26 2.53 - 4.98 2.53 - 4.98 equivalent throw ratios for 4K 1.38° DMD Control I/O 38 Fiberinet 86 GPIO (DB 25) 30 interface 10 Expanded Cinema Media Processor DCI 4K 2D up to 60flps* 10 Expanded Cinema Media Processor DCI 4K 2D up to 60flps* 10 Expanded Cinema Media Processor DCI 4K 2D up to 60flps* 10 Expanded Cinema Media Processor DCI 4K 2D up to 60flps* 10 Expanded Cinema Media Processor DCI 4K 2D up to 60flps* 10 Expanded Cinema Media Processor DCI 4K 2D up to 60flps* 10 Expanded Cinema Media Processor DCI 4K 2D up to 60flps* 10 Expanded Cinema Media Processor DCI 4K 2D up to 60flps* 10 Expanded Cinema Media Processor DCI 4K 2D up to 60flps* 10 Expanded Cinema Media Processor DCI 4K 2D up to 60flps* 20 Expanded Cinema Media Processor DCI 4K 2D up to 60flps* 21 Expanded Cinema Media Processor DCI 4K 2D up to 60flps* 22 Expanded Cinema Media Processor DCI 4K 2D up to 60flps* 23 Expanded	Housing	Hermetically sealed DMDs and optical assembly
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Prime lenses	Screen size	Up to 32m / 105 ft wide
1.27 - 1.86 1.45 - 2.13 1.63 - 2.53 1.64 - 2.60 1.65 - 2.60 2.60 - 2.60	Contrast ratio	1,850:1
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DCI 4k 30 (24 or 30 fps per eye)* DCI High Frame Rates 2K 30 but to 120fps (60fps per eye) IPEG 2000 bit-rates up to 625Mbps Dual-channel color-correction MPEG-2 (4:20 and 4:2:2 up to 60fps) 2x HDMI2 04 (up to 4K 20 60fps) 2x 36-50 linputs 1x HDMI 1.44 (up to 4K 20 24fps, support for BluRay 3D) 16x AES/EBU audio channels (2x RJ45) 8x 6FJ, 8x 6FJ (8x RJ45) 2x font-accessible USB 3.0 for fast ingest 2x front-accessible USB 3.0 for fast ingest 2x front-accessible USB 3.0 for fast ingest 2x front-accessible USB 2.0 Video watermarking: Civolution NexGuard Audio watermarking: Civolution NexGuard Audio watermarking: Civolution NexGuard Audio watermarking: Civolution NexGuard Audio watermarking: Civolution Closed captioning devices. Support for SMPTE 430-10 "4x 24fps is standard for 4k 60 fps / 4x 3D on ICMP upgrade modules a license is required. Newly-built 4k Barco Alchemy projectors have the license standard included. Integrated storage 1.91B effective storage (RAID-5) / 3x 11B Hot-swappable 2.5" hard-drives 3.91B effective storage (RAID-5) / 3x 21B Hot-swappable 2.5" hard-drives 3.91B effective storage (RAID-5) / 3x 21B Hot-swappable 2.5" hard-drives Projector Control Board Show Payer/Feditor/Scheduler Automation, 3D, Ingest Dynamic DCp playlist & intermission TMS integration Smart Projector Status Via HTMLS web-browsers including IOS & Android tablets Dual projector 3D: passive and active Automation, 3D, Ingest Dia HTMLS web-browsers including IOS & Android tablets Dual projector 3D: passive and active Automation, 3D, Ingest Dia HTMLS web-browsers including IOS & Android tablets Dual projector 3D: passive and active Automation, 3D ingest Dia HTMLS web-browsers including IOS & Android tablets Dual projector 3D: passive and active Automation, 3D ingest Dia HTMLS web-browsers including IOS & Android tablets Dual projector 3D: passive and active Automation, 3D ingest Dia HTMLS web-browsers including IOS & Android tablets Dual projector 3D: passive and active Automation, 3D ingest Dia HTMLS web-browsers including IO	Control I/O	8x GPIO (DB 25) 3D interface
Barco Web CommanderProjector Dashboard Projector Control Board Show Player/Editor/Scheduler Automation, 3D, Ingest Dynamic DCp playlist 8 intermission TMS integration Smart Projector Status Via HTML5 web-browsers including iOS & Android tablets Dual projector 3D: passive and active Auro 11.1 decodingPower requirements3W+N+PE 230/400V 16A 50-60Hz or 3W+PE 208V 27A 50-60Hz 30,000 BTU/hr (with 6.5kW - 7kW lamp)Dimensions604(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 projectorWeight141 kg (311 lbs)Ambient temperature35°C / 95°F Max.Exhaust airflow350 – 390 cfm (10 – 11 m³/min)Standard FeaturesCLO (Constant Light Output) Powerful SNMP agent Motorized/memorized lens (focus, zoom & shift)	Integrated Cinema Media Processor	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 NexGuard
Projector Control Board Show Player/Editor/Scheduler Automation, 3D, Ingest Dynamic DCp playlist & 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 3W+N+PE 230/400V 16A 50-60Hz or 3W+PE 208V 27A 50-60Hz 30,000 BTU/hr (with 6.5kW - 7kW 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 141 kg (311 lbs) Ambient temperature 35°C / 95°F Max. Exhaust airflow 350 & mdash; 390 cfm (10 & mdash; 11 m³/min) Standard Features CLO (Constant Light Output) Powerful SNMP agent Motorized/memorized lens (focus, zoom & shift)	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
30,000 BTU/hr (with 6.5kW - 7kW lamp) 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 141 kg (311 lbs) Ambient temperature 35°C / 95°F Max. Exhaust airflow 350 & & & & & & & & & & & & & & & & & & &	Barco Web Commander	Projector Control Board Show Player/Editor/Scheduler Automation, 3D, Ingest Dynamic DCp playlist & intermission TMS integration Smart Projector Status Via HTML5 web-browsers including iOS & Android tablets Dual projector 3D: passive and active
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Exhaust airflow 350 & Exhaust airflow 350 & Exhaust airflow 350 & Exhaust airflow CLO (Constant Light Output) Powerful SNMP agent Motorized/memorized lens (focus, zoom & shift)	Weight	141 kg (311 lbs)
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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 projection license
	4K 60p / 4K 3D license (included)
	Live 3D***
	Ghostbustina***
	Ghostbusting*** *** Software roadmap



