DP4K-23B

Ultra-bright Enhanced 4K DLP Cinema projector for screens up to 23m (75ft)





The Barco DP4K-23B is an ultra-bright Enhanced 4K cinema projector for screens up to 23m (75ft). Featuring Texas Instruments' **1.38" DLP Cinema® chip**, the DP4K-23B is specifically designed to ensure a razor-sharp movie experience on premium cinema screens.

Ultra-sharp image quality

The DP4K-23B combines this ultra-sharp image quality with an easy-to-use **modular** design, exceptional long lifetime and lowest cost of ownership.

Vibrant color accuracy

The top-of-the-line DP4K-23B brings stunning images in **Enhanced 4K resolution (4,096 x 2,160)**, combined with ultimate brightness and vibrant color-accuracy time after time.

Ultimate brightness

Thanks to its highly efficient optical design and patented **DMD cooling system**, the DP4K-23B is the brightest cinema projector in its class - your guarantee for an unequalled, premium cinema experience.

Also available as fully integrated DC package

The DP4K-23B projector is also available as fully integrated, ready-to-use projection and media server solution. This **DP4K-23Bx package** combines the Barco DP4K-23B projector with a Doremi ShowVault and IMB media server. The package offers a worry-free solution for all theaters that wish to go digital with a minimal hassle and risk. Another major plus is that this integrated system is compatible today with higher frame rates up to 120 fps in 2D and 60 fps in 3D, which makes it a perfect match for playing out Hollywood's upcoming HFR releases.



Technical specifications

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 - 4kW (Xenon lamp) Light Output 24,500 lumens (4 kW lamp) Screen size Up to 23m / 75 ft wide Contrast ratio 2,000.1 ((v)pical value when using a high contrast lens) Digital Video Inputs Slot for 2 x SMPTE 292M inputs or 4k Integrated Media Block 2 x DVI input both selectable as single and dual link Control I/O Ethernet, 8x GPIO, Serial RS232 Prime Lenses 1.13 - 1.66 1.27 - 1.26 1.23 1.23 1.29 3.26 2.25 3.23 1.29 3.26 2.25 3.26 2.25 3.29 4.28 equivalent throw ratios for 4k 1.38" DMD Projector Diagnostics via PC touch panel via Communicator control software via SNAPP agent Power Requirements 200-240V 30A 50-60Hz 19,000 BTU/ft (with 4kW lamp) Dimensions 604(H) x 754(M) x 1.129(D) mm 23.78(H) x 29.69(M) 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 55 cr Standard Features CLO (Constant Light Output) Powerful SNAPP agent Mortized/memorized lens (focus, zoom & shift) HDCP support Full 2k Ktriple flash 3D Advanced patented DMD cooling Options 4K Integrated Media Block ACS-2048 3D add-ons 1000 from 1000 from 1000 from 1000 f		
Housing Hermetically sealed DMDs and optical assembly Lamp 1.2kW - 4kW (Xenon lamp) Light Output 24,500 lumens (4 kW lamp) Screen size Up to 23m / 75 ft wide Contrast ratio (2,000:1 Up to 23m / 75 ft wide Contrast ratio (2,000:1 Light Video Inputs Slot for 2 x SMPTE 292M inputs or 4K Integrated Media Block 2 x DW input both selectable as single and dual link Control I/O Ethernet, 8x GPIO, Serial RS232 Prime Lenses 1.13 - 1.66 1.13 - 1.63 1.63 - 2.13 1.63 - 2.13 1.63 - 2.13 1.63 - 2.13 1.63 - 2.13 1.63 - 2.13 1.63 - 2.13 1.63 - 2.13 1.64 - 2.13 1.69 - 3.26 2.25 - 4.98 equivalent throw ratios for 4K 1.38* DMD Projector Diagnostics Via Couch panel Power Requirements 1200-240V 30A 50-60Hz 19,000 BTU/fr (with 4kW lamp) Dimensions 264(H) x 754(W) x 1129(D) mm 23.78(H) x 29.6(W) x 44.45(D) inch NB: min. 5 cm of air inlet spacing required at the bottom of projector Weight 350 CFM Standard Features CLO (Constant Light Output) Powerful SNMP agent CLO (Constant Light Output) Powerful SNMP agent HOUS Support FUI XK Triple flash 3D Advanced patented DMD cooling 4K Integrated Media Block ACS-2048 3D add-ons Touch panel	Digital MicroMirror Device™	3 x 1.38" DC4K dark metal devices
Light Output 24,500 lumens (4 kW lamp) Screen size Up to 23m / 75 ft wide Contrast ratio 2,000-1 (typical value when using a high contrast lens) Digital Video Inputs 51 for 2 x SMPTE 292M inputs or 4K integrated Media Block 2 x DVI input both selectable as single and dual link Control I/O Ethernet, 8k GPIO, Serial RS232 Prime Lenses 1.13 - 1.66 1.27 - 1.86 1.27 - 1.86 1.27 - 1.86 1.27 - 1.86 1.27 - 3.86 1.29 - 3.49 equivalent throw ratios for 4K 1.38* DMD Projector Diagnostics via PC touch panel via Communicator control software via SNNP agent Power Requirements 200-240V 30A 50-60Hz 19,000 BTU/fir (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 35°C / 95°F Max. Exhaust airflow 35°C (constant Light Output) Powerful SNMP agent CLO (constant Light Output) Powerful SNMP agent POWER (focus, zoom 8 shift) HOCP support	Native resolution	4,096 x 2,160 pixels
Light Output 24,500 lumens (4 kW lamp) Screen size Up to 23m / 75 ft wide Contrast ratio 2,000:1 (typical value when using a high contrast lens) Digital Video Inputs Slot for 2 x SMPTE 292M inputs or 4K Integrated Media Block 2 x DVI input both selectable as single and dual link Control I/O Ethernet, 8x GPIO, Serial RS232 Prime Lenses 1.13 - 1.66 1.27 - 1.86 1.29 - 1.33 1.63 - 2.53 1.64 - 2.53 1.65 - 2.53 1.66 1.77 - 1.86 1	Housing	Hermetically sealed DMDs and optical assembly
Screen size Up to 23m / 75 ft wide Contrast ratio 2,000:1 (typical value when using a high contrast lens) Digital Video Inputs Slot for 2 x SMPTE 292M inputs or 4K Integrated Media Block 2 x DVI input both selectable as single and dual link Control I/O Ethernet, 8x GPIO, Serial RS232 Prime Lenses 1.13 - 1.66 1.27 - 1.86 1.45 - 2.13 1.95 - 3.26 2.53 - 4.98 equivalent throw ratios for 4K 1.38" DMD Projector Diagnostics via PC touch panel via Communicator control software via SNMP agent Power Requirements 200-240V 30A 50-60Hz 1.9000 BTU/hr (with 4kW lamp) Dimensions 604(H) x 754(W) x 1129(D) mm 2.3.78(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 CFM Standard Features CLO (Constant Light Output) Powerful SNMP agent Mottorized lens (focus, zoom & shift) HDCP support HDCP s	Lamp	1.2kW - 4kW (Xenon lamp)
Contrast ratio 2,000:1 (typical value when using a high contrast lens) Digital Video Inputs Slot for 2 x SMPTE 292M inputs or 4K Integrated Media Block 2 x DVI input both selectable as single and dual link Control I/O Ethernet, 8x GPIO, Serial RS232 Prime Lenses 1.13 - 1.66 1.27 - 1.86 1.45 - 2.13 1.63 - 2.53 1.95 - 3.26 2.53 - 4.98 equivalent throw ratios for 4K 1.38" DMD Projector Diagnostics via PC touch panel via Communicator control software via SNMP agent 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 CFM Standard Features CLO (Constant Light Output) Powerful SNMP agent Motorized/memorized lens (focus, zoom & shift) HDCP support HDCP support HDCP support Full 2k triple flash 3D Advanced patented DMD cooling Options 4K Integrated Media Block ACS-2048 3D add-ons Touch panel	Light Output	24,500 lumens (4 kW lamp)
Control I/O Ethernet, 8x GPIO, Serial RS232	Screen size	Up to 23m / 75 ft wide
2 x DVI input both selectable as single and dual link Control I/O Ethernet, 8x GPIO, Serial RS232 Prime Lenses 1.13 - 1.66 1.27 - 1.86 1.45 - 2.13 1.63 - 2.53 1.95 - 3.26 2.53 1.95 - 3.26 2.53 1.98 equivalent throw ratios for 4K 1.38" DMD Projector Diagnostics Via PC touch panel via Communicator control software via SNMP agent Power Requirements 200-240V 30.4 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 CFM Standard Features CLO (Constant Light Output) Powerful SNMP agent Motorized/memorized lens (focus, zoom & shift) HDCP support Full 2K triple flash 3D Advanced patented DMD cooling Options 4K Integrated Media Block ACS-2048 3D add-ons Touch panel	Contrast ratio	
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via Communicator control software via SNMP agentPower Requirements200-240V 30A 50-60Hz 19,000 BTU/hr (with 4kW lamp)Dimensions604(H) x 754(W) x 1129(D) mm 23.78(H) x 29.69(W) x 44.45(D) inch 	Prime Lenses	1.27 - 1.86 1.45 - 2.13 1.63 - 2.53 1.95 - 3.26 2.53 - 4.98
19,000 BTU/hr (with 4kW 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 134 kg (295 lbs) Ambient temperature 35°C / 95°F Max. Exhaust airflow 350 CFM Standard Features CLO (Constant Light Output) Powerful SNMP agent Motorized/memorized lens (focus, zoom & shift) HDCP support Full 2K triple flash 3D Advanced patented DMD cooling Options 4K Integrated Media Block ACS-2048 3D add-ons Touch panel	Projector Diagnostics	via Communicator control software
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 Standard Features CLO (Constant Light Output) Powerful SNMP agent Motorized/memorized lens (focus, zoom & shift) HDCP support Full 2K triple flash 3D Advanced patented DMD cooling Options 4K Integrated Media Block ACS-2048 3D add-ons Touch panel	Power Requirements	
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CLO (Constant Light Output) Powerful SNMP agent Motorized/memorized lens (focus, zoom & shift) HDCP support Full 2K triple flash 3D Advanced patented DMD cooling 4K Integrated Media Block ACS-2048 3D add-ons Touch panel	Ambient temperature	35°C / 95°F Max.
Powerful SNMP agent Motorized/memorized lens (focus, zoom & shift) HDCP support Full 2K triple flash 3D Advanced patented DMD cooling Options 4K Integrated Media Block ACS-2048 3D add-ons Touch panel	Exhaust airflow	350 CFM
ACS-2048 3D add-ons Touch panel	Standard Features	Powerful SNMP agent Motorized/memorized lens (focus, zoom & shift) HDCP support Full 2K triple flash 3D
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