

DP4K-18BLPHC

Smart Laser high-contrast cinema projector for mid-size premium movie screens



- High-contrast images
- Reduced total cost of ownership
- Unprecedented ease of mind

The DP4K-18BLPHC doubles the contrast of the Smart Laser projector series to provide an improvement of image quality to mid-size premium screens. It delivers consistent, razor-sharp, and high-contrast images with native 4K resolution and 16,000 lumens native brightness. It's perfectly suited for mid-size movie screens ranging from 10 up to 16 meters (32.8 up to 52.5 feet).

Superior image quality

The DP4K-18BLPHC offers consistent DCI-compliant image quality with native 4K resolution, outstanding uniformity, and 5,000:1 native contrast on white and silver screens. Its light output can be dimmed to 30% of the initial brightness, enabling 2D and 3D showings from the same projector.

Reduced total cost of ownership

Eliminating all lamp-related costs, the DP4K-18BLPHC provides a very attractive TCO. Thanks to its unique cooling system, the projector boasts a 30,000-hour constant brightness at typical usage conditions.

Unprecedented ease of mind

The DP4K-18BLPHC cuts operating expenses, reduces operational complexity, and optimizes labor cost. The projector increases your uptime and frees you from all lamp-related costs, administration, and maintenance.

PRODUCT SPECIFICATIONS**DP4K-18BLPHC**

Brightness	16,000 lumens (typical)
Native contrast ratio	5,000:1 / 600:1 native ANSI contrast
Prime lenses	1.13-1.72; 1.35-1.86; 1.46-2.10; 1.65-2.60; 2.00-3.35
Resolution	4,096 x 2,160
Long-term brightness stability	30,000 hrs @ average usage conditions
Dimensions (WxLxH)	Projector: 754 x 1,129 x 604 mm / 29.69 x 44.5 x 23.78 inches Cooler: 561.5 x 738.5 x 348 mm / 22.11 x 29.07 x 13.7 inches
Weight	Projector: 143kg (315 lb) Cooler: 32kg (70.6 lb)
Cooling liquid hose length	4 hoses; 0.5m, 2.5m, 5m and 8m (1.6ft/8.2ft/16.4ft/26.2 ft)
Vertical separation between cooler and projector	Maximum 3m (10ft) (higher or lower)
Power requirements	Projector: 3x 400V + N or 3x 220V Cooler: obtains power from the projector
Heat load (max. power)	13023 BTU/h
Ambient temperature	30°C (86°F) Max. (projector and cooler)
Ambient humidity	85% Max. (projector and cooler)
Power consumption	Projector (incl. cooler): 4.0 kW
Media server	BarcoAlchemy ICM and other IMB brands supported.
Noise Level	dB(A) @ 1 m: 67.6 dB(A) 62 dB(A) (half fan speed)
3D systems	Active glasses systems and polarization systems on silver screens are supported. Color separation systems (Dolby3D and 6P) are not supported.
Safety requirements	Class 1 risk group 3 Show safety: the customer shall take precaution for the laser safety (respect the hazard distance and separation height) according to local laser show safety regulations. Workplace safety: the customer shall take precaution for: <ul style="list-style-type: none">■ workplace safety as prescribed by the local authorities■ basic laser safety training for operators■ laser safety program implementation in the company;■ access limitation only to trained personnel: area labelling, etc.

Last updated: 24 Feb 2021

Technical specifications are subject to change without prior notice. Please check www.barco.com for the latest information.