

# DP4K-40LHC

High-contrast 6P RGB laser cinema projector for premium large screens



The 6P RGB LHC range doubles the contrast of the L-series flagship laser projectors to provide Premium Large Format (PLF) screens with an even more significant improvement in image quality. Now you can choose between higher contrast or higher brightness within Barco's flagship laser cinema projector range.

## Unprecedented image quality

With a contrast ratio of 6,000:1 and brightness levels of 38,000 lumens, the DP4K-40LHC significantly boosts contrast while still providing a high brightness level. The DP4K-40LHC offers the same superior color saturation and uniformity as the other flagship laser projectors.

## Simplified operations

Fully integrated, the DP4K-40LHC greatly reduces complexity. It not only frees you from all lamp-related costs and maintenance, thanks to the single projector setup you can also seamlessly integrate it into your current system. In this way installing and operating the projector also becomes easier and downtime is reduced. What's more, if you already own a DP4K-60L flagship laser projector from Barco you can upgrade it to a high-contrast version.

## Reduced operating expenses

One major saving of the projector is that you avoid all lamp-related material, maintenance, and administrative costs. Thanks to its superior optical efficiency level, electrical costs are driven down as well. In this way, you can reduce your operating expenses.

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**Product specifications****DP4K-40LHC**

|                                       |  |
|---------------------------------------|--|
| <b>Resolution</b>                     | 4,096 x 2,160  |
| <b>Brightness</b>                     | 38,000 lumens typical  |
| <b>Native contrast ratio</b>          | 6,000:1 / 1,000:1 ANSI contrast (typical)  |
| <b>Prime lenses</b>                   | 1.13-1.72; 1.35-1.86; 1.46-2.10; 1.65-2.60; 2.00-3.35  |
| <b>Long-term brightness stability</b> | Less than 20% decrease during a runtime of 30,000 hrs  |
| <b>Dimensions (WxLxH)</b>             | Projector: 744 x 1,445 x 706 mm / 29.3 x 56.9 x 27.8 inches (with feet, no lens)<br>Two chillers, each with the following dimensions: 701 x 701 x 800 mm / 27.6 x 27.6 x 31.5 inches   |
| <b>Weight</b>                         | Projector: 235kg (~520lb)<br>Chillers: ~115kg (~250lb) per chiller (two chillers needed)   |
| <b>Cooling liquid hose length</b>     | 2.5-5-10m (8.2-16.4-32.8ft)  |
| <b>Power requirements</b>             | Projector:<br>200-240/346-415V 50-60Hz 16A 3W+N+PE (Y connection) / Power cord size range: 4 sq mm to 6 sq mm, 10AWG to 8AWG / Circuit breaker range: 25A to 40A<br>200-240V 3W+PE 28A 50-60Hz (delta connection) / Power cord size: 6 sq mm, 8AWG / Circuit breaker: 40A<br>Chillers:<br>230/400V 3W+N+PE 16A, 2.5 sq mm (Y connection) or 208V / 3W+PE (delta connection) / Max. 16A per phase |
| <b>Ambient temperature</b>            | 30°C (86°F) Max. (projector and chillers)  |
| <b>Ambient humidity</b>               | 75% Max. (projector and chillers)  |
| <b>Power consumption</b>              | Projector @ full laser power: 6.7 kW (2D or Polarization 3D) / 3.6 kW (Barco Laser3D - 6P)<br>Chillers @ full laser power: 3.0 kW (2D or Polarization 3D) / 2.5 kW (Barco Laser3D - 6P)<br>Projector @ half laser power: 3.6 kW (2D or Polarization 3D) / 2.2 kW (Barco Laser3D - 6P)<br>Chillers @ half laser power: 2.5 kW (2D or Polarization 3D) / 2.0 kW (Barco Laser3D - 6P)               |
| <b>Media server</b>                   | Barco Alchemy ICMP included in the projector: <ul style="list-style-type: none"><li>■ JPEG2000 2K &amp; 4K DCI play-out</li><li>■ High Frame Rates 3D up to 120fps (60fps per eye)</li><li>■ 2x Displayport</li><li>■ 2x 3G-SDI inputs</li><li>■ 1x HDMI 1.4a input 2D and PCM audio / 4K 24fps</li><li>■ 16x AES/EBU audio channels (2x RJ45)</li></ul>   |
| <b>3D systems</b>                     | Color3D (Barco Laser3D): Native 6-primary color-3D system. Only requires color filter glasses (Dolby3D glasses cannot be reused)<br>Active glasses systems<br>Polarization recuperation systems  |
| <b>DCI</b>                            | Projector + Barco Alchemy ICMP DCI CTP 1.2 certified   |
| <b>Safety class</b>                   | Class 1, RG3   |
| <b>Certifications</b>                 | CE; ETL/UL/FCC, CCC  |