

# FL40-4K

Rock-solid and powerful 4K LED projector



- **Extreme detail up to 4K (3840 x 2400) resolution**
- **True solid state and ruggedized**
- **Bright LEDs with exceptional color fidelity**
- **100-0% LED dimming for training at any time**
- **Barco Pulse software ensures lowest latency**
- **Also available: FS40 with dedicated IR LED for NVG training**

The FL40-4K is a true solid state projector, using the latest in HLD and LED illumination technology. It combines amazing visual performance and extreme reliability with a low TCO. Even in the most demanding environments, the FL40 delivers a vision to trust.

#### Extreme reliability in all situations

Offered in native WUXGA and WQXGA resolution, the performance of the FL40 WQXGA version can be extended up to 4K resolution (3840 x 2400) via Barco's proprietary Single Step Processing (SSP®) technology - a unique feature of the powerful and flexible Barco Pulse unified software platform. Thanks to the SSP technology in Barco Pulse the FL40 delivers high resolution images faster and at lower latency than any other competing technology.

No matter whether pitching, rolling, or bouncing, for training in air, at sea, or on land, the Barco FL40 is a true solid state projector with no moving parts or lamps. Its solid magnesium front and baseplate, act as mounting plates. Coupled with an array of mounting points in the front and on the top, it makes this projector solid as rock and perfectly suited for use on motion platforms.

#### Lowest TCO

The FL40 uses a proven DLP® sealed optical engine and latest solid state HLD LED illumination. Simulator operators can benefit from reduced Total Cost of Ownership (TCO) with extended maintenance cycles and no lamp changes or color adjustments for up to 50,000hrs. Barco Constant Light Output (CLO) functionality ensures total predictability in linear brightness performance over the life of the projector. Additional protection is available when using new intelligent high-efficiency air filters for installations in dusty and polluted environments.

**PRODUCT SPECIFICATIONS****FL40-4K**

<b>Brightness</b>	2100 ANSI Lumens minimum
<b>Contrast ratio</b>	1800-6000:1
<b>IR for NVG</b>	no
<b>Brightness uniformity</b>	90%
<b>Aspect ratio</b>	16:10
<b>Projector type</b>	1DLP RGB LED
<b>Resolution</b>	3,840 x 2,400 (4K) / 2,560 x 1,600 (native)
<b>Lens type</b>	FLD+ /FLDX
<b>Optical lens shift</b>	Vertical up to 146%, depending on lens Horizontal up to 70%, depending on lens Motorized zoom and focus (+ lens memory FLDX lenses) Motorized lens shift (with position memory on all lenses)
<b>Color correction</b>	P7 RealColor™
<b>CLO (constant light output)</b>	Yes
<b>Light source</b>	RGB LED
<b>Light source lifetime</b>	Up to 50,000 hours
<b>Sealed DLPTM core</b>	Yes
<b>Orientation</b>	360° rotation, no restrictions
<b>3D</b>	Active stereoscopic 3D
<b>Image processing</b>	Embedded warp & blend engine
<b>Keystone correction</b>	Yes
<b>Inputs</b>	2x DP1.2 2x dual link DVI-I HDBaseT upgradable HDMI2.0 upgradable RJ 45 Ethernet RS232 in 2x USB 12v out
<b>Input resolutions</b>	Including and up to: 3,840 x 2,400 @ 60Hz 3,840 x 2,160 @ 60Hz 4,096 x 2,160 @ 60Hz 2,560 x 1,600 @ 120Hz refresh rates: 24Hz to 120Hz for WQXGA (2560x1600) and 24Hz to 60Hz for 4K/4KUHD (4096 x 2160/ 3860 x 2400)
<b>Software tools</b>	Projector Toolset
<b>Control</b>	IR, RS232, RJ45
<b>Network connection</b>	IR, RS232, RJ45
<b>Power requirements</b>	100-240V / 50-60Hz
<b>Power consumption</b>	500 W typical, 570 W maximum
<b>BTU per hour</b>	1,707 BTU/h typical, 1,945 BTU/h max
<b>Noise level (typical at 25°C/77°F)</b>	33 dB(A)
<b>Operating temperature</b>	10 -40 °C (sea level)
<b>Storage temperature</b>	-20 to 60 °C
<b>Operating humidity</b>	20 -80% RH
<b>Storage humidity</b>	10 -90% RH
<b>Dimensions (WxLxH)</b>	450 x 457 x 244 mm / 17,7 x 18,0 x 9,6 in
<b>Weight</b>	21,5 kg / 47,4 lbs
<b>Standard accessories</b>	Power cord, wireless remote control
<b>Certifications</b>	CE, FCC Class A and cNus
<b>Warranty</b>	Limited 3 years parts and labor. Extendable up to 5 years

**Last updated: 29 Sep 2020**Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.