

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**

General specifications	
Brightness	2100 ANSI Lumens minimum
Contrast ratio	1800-6000:1
IR for NVG	no
Brightness uniformity	90%
Aspect ratio	16:10
Projector type	1DLP RGB LED
Resolution	3,840 x 2,400 (4K) / 2,560 x 1,600 (native)
Lens type	FLD+/FLDX
Optical lens shift	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)
Color correction	P7 RealColor™
CLO (constant light output)	Yes
Light source	RGB LED
Light source lifetime	Up to 50,000 hours
Sealed DLP™ core	Yes
Orientation	360° rotation, no restrictions
3D	Active stereoscopic 3D
Image processing	Embedded warp & blend engine
Keystone correction	Yes
Inputs	2x DP1.2 2x dual link DVI-I HDBaseT upgradable HDMI 2.0 (HDCP2.2, HDR10) RJ 45 Ethernet RS232 in 2x USB 12v out
Input resolutions	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)

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Input color depth	DVI: Including and up to 2560x1600@60Hz 8 bit RGB and 3840x2400@50Hz 8 bit RGB DisplayPort: Including and up to 2560x1600@120Hz 12 bit RGB and 3840x2400@60Hz 8 bit RGB
Software tools	Projector Toolset
Control	IR, RS232, RJ45
Network connection	IR, RS232, RJ45
Power requirements	100-240V / 50-60Hz
Power consumption	500 W typical, 570 W maximum
BTU per hour	1,707 BTU/h typical, 1,945 BTU/h max
Noise level (typical at 25°C/77°F)	33 dB(A)
Operating temperature	10 -40 °C (sea level)
Storage temperature	-20 to 60 °C
Operating humidity	20 -80% RH
Storage humidity	10 -90% RH
Dimensions (WxLxH)	450 x 457 x 244 mm / 17,7 x 18,0 x 9,6 in
Weight	21,5 kg / 47,4 lbs
Standard accessories	Power cord, wireless remote control
Certifications	CE, FCC Class A and cNus
Warranty	Limited 3 years parts and labor. Extendable up to 5 years

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