FL40-WU MKII

Rock-solid and powerful WUXGA LED projector

24/7 OPERATION | PULSE PROCESSING | CONSTANT LIGHT OUTPUT | 1 CHIP DLP

- **True solid-state and ruggedized**
- **Brighter LEDs with exceptional color fidelity**
- **100-0% LED dimming for training at any time**
- **Barco Pulse software ensures powerful processing and lowest latency**
- **Also available: FS40-WU MKII with dedicated IR LED for NVG training**

The FL40-WU MKII is the latest in the line of true solid-state simulation-ready projectors from Barco. Combining LED illumination technology with Barco Pulse electronics performance, the FL40 delivers visual excellence and extreme reliability with a low TCO. Dual iris and optical filters ensure optimal contrast and deeper black levels for best in class image clarity. Designed for the most demanding simulation environments, the FL40 delivers a vision to trust.

Extreme reliability in all situations

Using the latest LED illumination, the FL40 produces high brightness images with optimal clarity and color gamut. Thanks to the Single Step Processing (SSP®) technology in Barco Pulse the FL40 WUXGA benefits from built-in warp and blend and smooth images up to 240Hz frame rate.

The Barco FL40 is a true solid-state projector designed for motion platforms with no moving parts. It is rock solid designed for shock and vibration. Its solid magnesium alloy baseplate act as mounting plate. Coupled with an array of mounting points in the front and on the top cabinet, they make this projector solid as rock and perfectly suited for use on motion platforms in any orientation.

Lowest TCO

The FL40 uses a proven DLP® sealed optical engine and the latest solid-state 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 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 harsh environments.

Product specifications	FL40-WU MKII
General specifications	
Brightness	3,200 Typical ANSI Lumens
Contrast ratio	1800-6000:1
IR for NVG	no
Brightness uniformity	90%
Aspect ratio	16:10
Projector type	1DLP RGB LED
Resolution	1920 x 1200 (native)
Lens type	FLD/FLD+/FLDX
Optical lens shift	Vertical up to 134%, 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^{TM}
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: 1,920 x 1200 @ 60Hz 1,920 x 1,200 @240Hz
Input color depth	DVI: Native including and up to 1920x1200@120Hz 8 bit RGB. Non-native including and up to 2560x1600@60Hz 8 bit RGB and 3840x2400@50Hz 8 bit RGB DisplayPort: Native including and up to 1920x1200@120Hz 12 bit RGB, and 1920x1200@240Hz 8 bit RGB. Non-native 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 5 years parts and labor, extendable

Last updated: 29 Jun 2023