# **FL40-WU MKII**

Rock-solid and powerful WUXGA LED projector











- 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

Product specifications	FE40-WO MRII
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 <sup>TM</sup>
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 $ heta$ blend engine
Keystone correction	Yes
	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	
	1,920 x 1,200 @240Hz  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
Software tools	1,920 x 1,200 @240Hz  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
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Software tools Control Network connection Power requirements Power consumption BTU per hour Noise level (typical at 25°C/77°F) Operating temperature Storage temperature Operating humidity	1,920 x 1,200 @240Hz  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  Projector Toolset  IR, RS232, RJ45  IR, RS232, RJ45  100-240V / 50-60Hz  500 W typical, 570 W maximum  1,707 BTU/h typical, 1,945 BTU/h max  33 dB(A)  10 -40 °C (sea level)  -20 to 60 °C  20 -80% RH
Control  Network connection  Power requirements  Power consumption  BTU per hour  Noise level (typical at 25°C/77°F)  Operating temperature  Storage temperature  Operating humidity  Storage humidity	1,920 x 1,200 @240Hz  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  Projector Toolset  IR, RS232, RJ45  IR, RS232, RJ45  100-240V / 50-60Hz  500 W typical, 570 W maximum  1,707 BTU/h typical, 1,945 BTU/h max  33 dB(A)  10 -40 °C (sea level)  -20 to 60 °C  20 -80% RH  10 -90% RH
Software tools Control Network connection Power requirements Power consumption BTU per hour Noise level (typical at 25°C/77°F) Operating temperature Storage temperature Operating humidity Storage humidity Dimensions (WxLxH)	1,920 x 1,200 @240Hz  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  Projector Toolset  IR, RS232, RJ45  IR, RS232, RJ45  100-240V / 50-60Hz  500 W typical, 570 W maximum  1,707 BTU/h typical, 1,945 BTU/h max  33 dB(A)  10 -40 °C (sea level)  -20 to 60 °C  20 -80% RH  10 -90% RH  450 x 457 x 244 mm / 17,7 x 18,0 x 9,6 in
Software tools Control Network connection Power requirements Power consumption BTU per hour Noise level (typical at 25°C/77°F) Operating temperature Storage temperature Operating humidity Storage humidity Dimensions (WxLxH) Weight	1,920 x 1,200 @240Hz  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  Projector Toolset  IR, RS232, RJ45  IR, RS232, RJ45  IR, RS232, RJ45  100-240V / 50-60Hz  500 W typical, 570 W maximum  1,707 BTU/h typical, 1,945 BTU/h max  33 dB(A)  10 -40 °C (sea level)  -20 to 60 °C  20 -80% RH  10 -90% RH  450 x 457 x 244 mm / 17,7 x 18,0 x 9,6 in  21,5 kg / 47,4 lbs

## Last updated: 17 May 2023

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