

# FS40-WU MKII

Rock-solid and powerful WUXGA LED projector for NVG training

24/7  
OPERATION

PULSE  
PROCESSING

CONSTANT  
LIGHT OUTPUT

1  
CHIP  
DLP



- Night Vision Goggles stimulation
- True solid-state and ruggedized
- Bright LEDs with exceptional color fidelity
- 100-0% LED dimming for training at any time
- Barco Pulse software ensures powerful processing and lowest latency

The FS40-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 FS40 delivers visual excellence and extreme reliability with a low TCO. Designed for simulation applications, the FS40 features both an RGB and a dedicated IR light source, which allows for individual control of visible light and IR intensity to simulate daytime and nighttime training scenarios. 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 FS40 delivers a vision to trust.

## Extreme reliability in all situations

Using the latest LED illumination, the FS40 produces high brightness images with optimal clarity and color gamut. Thanks to the Single Step Processing (SSP®) technology in Barco Pulse the FS40 WUXGA benefits from built-in warp and blend and smooth images up to 240Hz frame rate.

The Barco FS40 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 FS40 uses a proven DLP® sealed optical engine and the latest solid-state LED illumination. Simulator operators can benefit from reduced Total Cost of

**BARCO**

The FS40 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 75,000hrs. 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****FS40-WU MKII****General specifications**

|                                    |                                                                                                                                                                                                        |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Brightness                         | 3,200 Typical ANSI Lumens                                                                                                                                                                              |
| Contrast ratio                     | 1800-6000:1                                                                                                                                                                                            |
| IR for NVG                         | Yes                                                                                                                                                                                                    |
| 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<br>Horizontal up to 70%, depending on lens<br>Motorized zoom and focus (+ lens memory FLDX lenses)<br>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              | Minimum 50,000 hours @ full power<br>Up to 75,000 hours, depending on mode of operation                                                                                                                |
| 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<br>2x dual link DVI-I<br>HDBaseT upgradable<br>HDMI™ 2.0 (HDCP2.2, HDR10)<br>RJ 45 Ethernet<br>RS232 in<br>2x USB<br>12v out                                                                  |
| Input resolutions                  | Including and up to:<br>1,920 x 1200 @ 60Hz<br>1,920 x 1,200 @ 240Hz                                                                                                                                   |
| Input color depth                  | Up to 12-bit, depending on configuration                                                                                                                                                               |
| 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                                                                                                                                                            |

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