

F90-W13

13,000 lumens, WUXGA, DLP laser phosphor projector



- **Solid performance, 24/7**
- **Ultimate installation flexibility**
- **Increased uptime, reduced costs**

The excellent image quality and laser phosphor light source of Barco's F90 projectors enable you to provide stunning experiences while saving both time and money. Designed for installation in everything from high demanding visitor attractions to simulation applications that require 24/7 operation, the reliable F90-W13 is equally suited for events, retail and advertising as well as boardrooms and auditoriums. Thanks to its 3D functionality, the projector is also perfectly fit for theme park dark rides and interactive experiences.

Excellent image quality

Thanks to its advanced optical design, the F90-W13 delivers excellent image quality. What's more, this reliable projector also offers images with constant light output, for long-term, worry-free operation.

Unprecedented business value

The F90-W13 projector enables you to increase uptime while driving costs down. Through its laser-phosphor light source and advanced cooling design, it provides up to 40,000 hours operating time without need for lamp changes - resulting in considerable cost-savings on maintenance and consumables.

Ultimate installation flexibility

This projector can run in any orientation, giving you more flexibility in projector location and orientation. Thanks to its wide array of high-resolution FLD and FLD+ lenses - from ultra-short throw (0.28:1) to long throw (9.75:1) - each providing a wide lens shift range, the F90-W13 accommodates almost any projector configuration.

Product specifications**F90-W13**

General specifications	
Projector type	Single chip DLP laser phosphor projector
Resolution	1,920 x 1,200 (WUXGA)
Brightness	13,300 center lumens* 12,000 ANSI lumens* 13,500 ISO lumens*
Contrast ratio	1,800:1 sequential
Brightness uniformity	90%
Aspect ratio	16:10
Lens type	FLD+
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™
CLO (constant light output)	Yes**
Light source	Laser phosphor
Light source lifetime	Up to 60,000 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	HDSDI, 2x DP 1.2, 2x dual link DVI-D, HDBaseT, HDMI2.0 (HDCP2.2, HDR10), RJ 45 Ethernet, DMX in/out***, RS232 in, 2x USB, 12v out
Input resolutions	Up to 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)
Software tools	Projector Toolset
Control	IR, RS232, RJ45, XLR wired

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Network connection	10/100 Ethernet, RJ45
Power requirements	110-240V / 50-60Hz
Power consumption	1500 W nominal, 2180 W maximum
BTU per hour	5100 BTU/h nominal, 7430 BTU/h maximum
Standby power	
Noise level (typical at 25°C/77°F)	38 dB(A)
Operating temperature	10 -45 °C (sea level)
Storage temperature	-20 to 60 °C
Operating humidity	20 -80% RH
Storage humidity	10 -90% RH
Dimensions (WxLxH)	575 x 730 x 295 mm / 22.64 x 28.74 x 11.61 in
Weight	44.5 kg / 98 lbs
Standard accessories	Power cord, wireless remote control
Certifications	CE, FCC Class A, cNemkoUS, CCC EAC, KSA, KCC, RCM, UkrSEPRO
Warranty	Limited 3 years parts and labor. Extendable up to 5 years
24-7 documentation	This projector is designed and warranted for heavy duty 24/7 operation. Specific measures and design considerations have been made in order for it to comply with stringent requirements in challenging applications.
Notes	* When measured with the FLD 1.6-2.32:1 (R9801214) on-axis and in Wide Angle position ** SW upgradable. Please contact an authorized Barco representative for details. *** When used in long-life mode, available through SW upgrade

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