

# F90-4K13

11,800 lumens, 4K UHD, DLP laser phosphor projector



- **Razor-sharp 4K images**
- **Ultimate installation flexibility, 24/7 operation**
- **Increased uptime, reduced costs**

The stunning image quality and laser phosphor light source of Barco's F90 projectors enable you to provide exceptional 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 4K13 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.

### **Superior image quality**

The F90-4K13 delivers razor-sharp images at 4K UHD resolution with a high level of detail, and highly saturated colors that meet the Rec. 709 color space. Featuring an advanced optical design, this reliable projector provides a constant light output, for long-term, worry-free operation.

### **Unprecedented business value**

The F90-4K13 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 (0.3:1) to long throw (9.75:1) – each providing a wide lens shift range, the F90-4K13 accommodates almost any projector configuration.

**PRODUCT SPECIFICATIONS****F90-4K13**

<b>Projector type</b>	Single chip DLP laser phosphor projector
<b>Resolution</b>	3,840 x 2,400 (4K UHD) / 2,560 x 1,600 (WQXGA native)
<b>Brightness</b>	11,800 center lumens
<b>Contrast ratio</b>	1,800:1 sequential, 10,000:1 dynamic*
<b>Brightness uniformity</b>	90%
<b>Aspect ratio</b>	16:10
<b>Lens range</b>	GLD (0.85 -1.06:1) GLD (1.06 -1.43:1) GLD (1.43 -2.12:1) GLD (1.43 -2.12:1) -Manual Zoom & Focus GLD (2.12 -3.18:1) Available lenses with lens adapter: FLDX (0.65 : 1) [EN67] FLDX (0.8 -1.21 : 1) [EN66] FLDX (1.2 -1.7 : 1) [EN63] FLDX (1.7 -2.5 : 1) [EN61] FLD+ (0.65:1) [EN47] -Mechanical support needed FLD+ (0.8:1) [EN42] FLD+ (Long Focus 0.8-1.21 : 1) [EN45] FLD+ (Short Focus 0.8-1.21 : 1) [EN46] FLD+ (1.2 -1.7 : 1) [EN43] FLD+ (1.7 -2.5 : 1) [EN41] FLD+ (2.5 -4.6 : 1) [EN44] FLD (3.8 -6.5 : 1) [EN16]
<b>Optical lens shift</b>	Up to 146% lens shift, depending on lens. Motorized zoom, focus, vertical and horizontal shift, iris and shutter.
<b>Color correction</b>	P7 RealColor™
<b>CLO (constant light output)</b>	Yes*
<b>Light source</b>	Laser phosphor
<b>Light source lifetime</b>	Up to 60,000 hours, depending on mode of operation
<b>Sealed DLP™ core</b>	Yes
<b>Orientation</b>	360° rotation, no restrictions
<b>3D</b>	Active stereoscopic 3D
<b>Image processing</b>	Embedded warp & blend engine
<b>Keystone correction</b>	Yes
<b>Inputs</b>	HDS DI, 2x DP 1.2, 2x dual link DVI-D, HDBaseT, HDMI 2.0*, RJ 45 Ethernet, DMX in/out*, RS232 in, 2x USB, 12v out

**PRODUCT SPECIFICATIONS****F90-4K13**

Input resolutions	Up to 4K UHD @ 60Hz / Up to 2,560 x 1,600 @ 120Hz
Software tools	Projector Toolset
Control	IR, RS232, RJ45, XLR wired
Network connection	10/100 Ethernet, RJ45
Power requirements	100-240V / 50-60Hz
Power consumption	1,200W nominal, 1,600 W maximum
BTU per hour	4,100 BTU/h nominal, 5,500 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 / 98.1 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	* SW upgradable. Please contact an authorized Barco representative for details. ** When used in long-life mode, available through SW upgrade

Last updated: 22 Feb 2019

Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.