

F90-4K13

11,800 lumens, 4K UHD, single-chip DLP laser phosphor projector



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 boardrooms, auditoriums, and visitor attractions such as museums and planetariums, the rugged F90-4K13 is equally suited for events, and retail and advertising applications. Thanks to its motion platform compatibility and 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, so virtually maintenance-free - 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.

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Product specifications

F90-4K13

Projector type	Single chip DLP laser phosphor projector
Resolution	3,840 x 2,400 (4K UHD) / 2,560 x 1,600 (WQXGA native)
Brightness	11,800 center lumens
Contrast ratio	400:1 native, 1800:1 Full field
Brightness uniformity	90%
Aspect ratio	16:10
Lens type	FLD+
Optical lens shift	Up to 146% lens shift, depending on lens. Motorized zoom, focus, vertical and horizontal shift, iris and shutter.
Color correction	P7 RealColor™
CLO (constant light output)	Yes
Light source	Laser phosphor
Light source lifetime	20,000 / 40,000 hours, brightness mode dependent
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, 2x dual link DVI-I, HDBaseT, HDMI 2.0, RJ 45 Ethernet, DMX in/out, RS232 in, 2x USB, 12v out
Input resolutions	Up to 4K UHD @ 60Hz / Up to 2,560 x 1,600 @ 120Hz
Software tools	Projector Toolset
Control	IR, RS232, RJ45
Network connection	10/100 Ethernet, RJ45
Power requirements	100-240V / 50-60Hz
Power consumption	1,600 W Max.
BTU per hour	Max. 6,000 BTU/h
Noise level (typical at 25°C/77°F)	43 dB(A) (max)/ 40 dB(A) (normal)
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)	575 x 730 x 295 mm / 22.64 x 28.74 x 11.61 in
Weight	38 kg / 84 lbs
Standard accessories	Power cord, wireless remote control
Certifications	CE, FCC Class A and cCSAus
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.

Last updated: 22 Mar 2016
Technical specifications are subject to change without prior notice.
Please check www.barco.com for the latest information.

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