

# F80-4K12

12,000 lumens, 4K UHD, DLP laser phosphor projector



- **Stunning images with Rec. 709 color gamut**
- **Ultimate installation flexibility**
- **3D capable**

The stunning image quality and laser phosphor light source of Barco's F80 projectors enable you to provide exceptional experiences while saving both time and money. They're designed for fixed installation in a wide range of applications such as museums, board rooms, and auditoriums. Thanks to their 3D capability, they're also perfectly fit for theme park dark rides and interactive experiences.

### Superior image quality

The F80-4K12 delivers stunning images at 4K UHD resolution with a high level of detail, and highly saturated colors that meet the Rec. 709 color space. What's more it features the powerful Barco Pulse processing that allows for sharper images and less latency thanks to its Single Step Processing (SSP).

### Unprecedented business value

With this projector you can increase your uptime while driving costs down. Through its laser-phosphor light source and advanced cooling design, it provides a long operating time without need for lamp changes -resulting in considerable cost-savings on maintenance and consumables.

### Ultimate installation flexibility

The F80-4K12 gives you more flexibility in projector location and orientation as it can run in any orientation. Thanks to its wide array of all-glass lenses and wide lens shift ranges, the F80-4K12 accommodates almost any projector configuration.

## Product specifications

## F80-4K12

### General specifications

Notes	* When measured with the GLD 1.43-2.12:1 lens in Wide Angle  ** For optimal performance, switch off the projector regularly. For details please consult the manual. *** Except on light source: 20,000 hours in normal mode, or 3 years, whichever comes first.
Projector type	Single-chip DLP (0.67") laser phosphor projector
Technology	0.67" DMD™ x1
Resolution	3,840 x 2,400 (4K UHD) / 2,716 x 1,600 (WQXGA+ native)
Brightness	11,300 center lumens  10,700 ANSI lumens  12,000 ISO lumens
Brightness uniformity	> 90%
Contrast ratio	1,200:1 sequential, 10,000:1 dynamic*
Light source	Laser phosphor
Light source lifetime	> 20,000 h in normal mode, > 12,000 h in silent mode, > 40,000 h in long life mode, > 12,000 h in high brightness mode
Aspect ratio	17:10 native
Color space	Rec. 709
Orientation	360° rotation, no restrictions
Sealed DLP™ core	Yes
24/7 operation	Yes**
Color correction	P7 RealColor™
CLO (constant light output)	Yes
Keystone correction	Yes
Image processing	Embedded warp & blend engine direct adjust OSD + Ptoolset
3D	Active stereoscopic 3D / Passive stereo compatible max WQXGA @120Hz
Lens type	GLD / FLD+ (lens adapter needed) / FLDX (lens adapter needed)
Optical lens shift	Vertical up to 125%, depending on lens Horizontal up to 50%, depending on lens Motorized zoom and focus (with lens memory on GLD and FLDX lenses) Motorized lens shift (with position memory on all lenses)
Lens range	GLD-range: 0.8-1.0 ; 1.0-1.35 ; 1.35-2.0 ; 2.0-3.0
Optical dowsner	Laser dimming
Inputs	HDMI™ 2.0 (HDCP2.2, HDR10) / 2x DP 1.2 / 12G in (and 12G loop through) / 2x dual link DVI-D / HDBaseT
Input resolutions	From VGA up to 4K (4096 x 2160) refresh rates: 24Hz to 120Hz for WQXGA+ (2716x1600) and 24Hz to 60Hz for 4K/4KUHD (4096 x 2160 / 3860 x 2400)
Software tools	Projector Toolset
Control	TCP-IP / IR / RS-232 / XLR wired
Network connection	10/100 Base-T, RJ-45 connector
Power requirements	100-240V / 50-60Hz
Power consumption	1050 W nominal, 1200 W maximum
Standby power	< 0.5W
Dissipation BTU	max 4100 BTU/h
Noise level (typical at 25°C/77°F)	35 dB(A) when used in silent mode / 39 dB(A) in normal mode
Operational ambient temperature	0°-35°C / 32°-95°F
Operating humidity	0% -80% RH (non-condensed)
Storage temperature	-20 to 60 °C
Storage humidity	20 -90% RH (non-condensed)
Dimensions (WxLxH)	480 x 680 x 227 mm / 18.9 x 26.7 x 8.9 in (without feet)
Weight	26.8 kg / 59.1 lbs (without lens)
Shipping Dimensions	583 x 754 x 444 mm / 23.0" x 30.9" x 17.5"
Shipping weight	38.5 kg / 81.6 lbs
Standard accessories	Power cord, wireless/XLR wired rugged remote control
Certifications	Compliant with UL60950-1 and EN60950-1 complies with FCC rules & regulations, part 15 Class A and CE EN55022 Class A, RoHS
Warranty	Limited 3 years on parts and labor(***) Extendable up to 5 years.
Blend	horizontal and vertical edge blending
Screen size	max 20m
Color reproduction	P3 DCI (98%) with P7 color correction
DMX 512	Standard

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