

# F80-4K12

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



- **Stunning images with Rec. 709 color gamut**
- **Ultimate installation flexibility, 24/7 operation**
- **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**

|                                    |  |
|------------------------------------|--|
| Projector type                     | Single-chip DLP 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<br>10,400 ANSI lumens<br>12,000 ISO lumens  |
| Contrast ratio                     | 1,200:1 sequential, 10,000:1 dynamic**   |
| Brightness uniformity              | > 90%  |
| Aspect ratio                       | 17:10 native   |
| Blend                              | horizontal and vertical edge blending  |
| Lens type                          | GLD / FLD+ (lens adapter needed) / FLDX (lens adapter needed)  |
| Lens range                         | GLD-range: 0.8 -1.0 ; 1.0 -1.35 ; 1.35 -2.0 ; 2.0 -3.0   |
| Screen size                        | max 20m  |
| Optical lens shift                 | Vertical up to 125%, depending on lens<br>Horizontal up to 50%, depending on lens<br>Motorized zoom and focus (with lens memory on GLD and FLDX lenses)<br>Motorized lens shift (with position memory on all lenses) |
| Color correction                   | P7 RealColor™  |
| Light source                       | Laser phosphor   |
| Light source lifetime              | > 20000 h in normal mode, > 12000 h in silent mode, > 40000 h in long life mode, > 12000 h in high brightness mode   |
| Sealed DLP™ core                   | Yes  |
| Optical dowsers                    | Laser dimming  |
| Orientation                        | 360° rotation, no restrictions   |
| DMX 512                            | Standard   |
| Image processing                   | Embedded warp & blend engine<br>direct adjust OSD + Ptoolset   |
| CLO (constant light output)        | Yes  |
| 3D                                 | Active stereoscopic 3D / Passive stereo compatible<br>max WQXGA @120Hz   |
| Keystone correction                | Yes  |
| Inputs                             | HDMI2.0 (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)<br>refresh rates:<br>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   |
| Noise level (typical at 25°C/77°F) | 35 dB(A) when used in silent mode / 39 dB(A) in normal mode  |
| 24/7 operation                     | Yes  |
| Operational ambient temperature    | 0°-35°C / 32°-95°F   |

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|                      |   |
|----------------------|---|
| Storage temperature  | -20 to 60 °C  |
| Operating humidity   | 0% -80% RH (non-condensed)  |
| Storage humidity     | 20 -90% RH (non-condensed)  |
| Dissipation BTU      | max 4100 BTU/h  |
| 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<br>complies with FCC rules & regulations, part 15 Class A and CE EN55022 Class A, RoHS                     |
| Warranty             | 3 years*  |
| Notes                | *except on light source: 20,000 hrs in normal mode or 3 years<br>** SW upgradable. Please contact an authorized Barco representative for details. |

Last updated: 16 Apr 2020

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