

# F22 series

High-performance single-chip DLP projector with 1080p, SXGA+ or WUXGA resolution up to 3,300 lumens



The F22-series is the ultimate compact performance projector for technically challenging and demanding applications. Providing world-class technology, a functional and innovative design, the F22 delivers an unmatched level of performance, reliability, automation and customization.

## The design is in the details

Featuring WUXGA, 1080p and SXGA+ resolutions with up to 3,300 lumens, the F22 ensures the best possible result for your image needs in every situation. Its compact footprint makes smart use of valuable installation area and reduces the resources required during physical installation. Once mounted, lamp changes can be done with the projector in situ, saving both time and money.

**Performance you can count on** The F22-series projectors are specifically engineered for demanding environments such as motion-based simulators or theme park rides, where reliability and performance are paramount. Each projector is manufactured and meticulously tested and calibrated in the Barco center of excellence in Norway. The product is warranted for 24/7 operation and is supported around-the-clock by Barco's global service and support team.

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## Product specifications

## F22 series

|                                     |  |
|-------------------------------------|--|
| <b>Technology</b>                   | single-chip DLP® projector   |
| <b>Concept</b>                      | optical lens shift design  |
| <b>Resolution</b>                   | SXGA+ (1,400 x 1,050) / 1080p (1,920 x 1,080) / WUXGA (1,920 x 1,200)  |
| <b>Brightness</b>                   | Up to 3,300 lumens   |
| <b>Contrast</b>                     | Up to 2,500 : 1 (Nominal full field on/off)  |
| <b>Aspect ratio</b>                 | 16:9 (720p) / 4:3 (SXGA+) / 16:9 (1080p) / 16:10 (WUXGA)   |
| <b>Display colors</b>               | Less than 1 Billion colours, 30-bit RGB  |
| <b>Latency</b>                      | ~22ms frame on graphics port   |
| <b>Computer graphics formats</b>    | 1,920 x 1,200 - 640 x 480 pixel resolution (model dependent) / RGBHV, RGBS, RGSB   |
| <b>Horizontal scan frequencies</b>  | 15 - 150 kHz (resolution dependant)  |
| <b>Vertical scan frequencies</b>    | 48 - 190 Hz (resolution dependant)   |
| <b>Video formats</b>                | EDTV (576p, 480p) / SDTV (576i, 480i) / HDTV (1080p, 1080i, 720p) /NTSC, PAL, SECAM  |
| <b>Lens operation</b>               | Focus, shift and manual zoom   |
| <b>Lenses</b>                       | <ul style="list-style-type: none"><li>■ Wide Angle EN17 lens - throw ratios: 1.09 : 1 (720p) / 1.00 : 1 (SXGA+) / 0.92 : 1 (1080p) / 0.92 : 1 (WUXGA)</li><li>■ Ultra Wide Angle EN19 lens - throw ratios: 0.88 : 1 (720p) / 0.80 : 1 (SXGA+) / 0.74 : 1 (1080p) / 0.74 : 1 (WUXGA)</li><li>■ Standard projection lens EN35 - throw ratios: 1.89 - 2.62 : 1 (720p) / 1.73 - 2.39 : 1 (SXGA+) / 1.60 - 2.21 : 1 (1080p) / 1.60 - 2.21 : 1 (WUXGA)</li></ul> |
| <b>Image width</b>                  | F22 lenses are not interchangeable<br>0.7 - 2.5 m  |
| <b>Light source</b>                 | 220W UHP lamp  |
| <b>Lamp lifetime</b>                | Up to 2,250 hours (full power) / up to 3,000 hours (Eco mode)  |
| <b>Computer inputs</b>              | 1 x HDMI 1.3a, 1 x DVI-I, 1 x VGA  |
| <b>Video Input</b>                  | 1 x HDMI 1.3a, 1 x DVI-I, 1 x S-video, 1 x Composite, 1 x YPbPr  |
| <b>Control possibilities</b>        | 1 x RJ-45 TCP/IP, 1 x 9-pin D-SUB RS232, 1 x USB   |
| <b>Dimensions</b>                   | 278 x 94 x 234 mm (WxHxD)  |
| <b>Weight</b>                       | 2.9 kg   |
| <b>Shipping Dimensions</b>          | 440 x 440 x 310 mm (WxHxD)   |
| <b>Shipping Weight from Factory</b> | 7.4 kg   |
| <b>Power requirements</b>           | 3.0-1.3A, ~100-240V, 50-60Hz   |
| <b>Conformances</b>                 | CE, FCC Class A and cCSAus   |
| <b>Operating temperature</b>        | 10 - 40 °C   |
| <b>Storage temperature</b>          | -20 - 60 °C  |
| <b>Operating humidity</b>           | 20 - 80% RH  |
| <b>Storage humidity</b>             | 10 - 90% RH  |
| <b>Color</b>                        | Black metallic   |
| <b>Warranty</b>                     | 3 years standard warranty, 500 hours or 90 days on lamp (whichever comes first).<br>Optional 2 years, 24/7 operation warranty. Conditions apply.   |
| <b>MTBF</b>                         | 27,838 hours   |
| <b>BTU per hour</b>                 | Less than 1,061  |

Last updated: 31 Mar 2017  
Technical specifications are subject to change without prior notice.  
Please check [www.barco.com](http://www.barco.com) for the latest information.

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