

# F12 series

Compact single-chip DLP projector with WUXGA, 1080p or SXGA+ resolution up to 4,100 lumens



- **Reliable images with high brightness and contrast**
- **Designed for 24/7 operation**
- **Compact and light**

Designed for 24/7 use, the versatile F12 DLP® projector offers a wide choice in configurations with different resolutions and lenses making it the perfect choice for various applications: simulation and training, small- and mid-size venues and visitor attractions. The F12 projector combines high resolution, outstanding brightness, contrast and image quality in a compact magnesium chassis of only 3.5 kg. And as there are no user-serviceable parts included in the projector, servicing and maintenance is limited to a bare minimum for a low total cost of ownership.

### **Choose from WUXGA, 1080p, or SXGA+ resolution**

When computer-based images with maximum detail and accuracy are the primary concern, WUXGA is the ideal resolution and it's fully compatible with the 1,600 x 1,200 format. For video applications, an 1,920 x 1,080 (1080p) resolution shows HD video and data in excellent quality. Whether for computer or video content, wide screen or legacy 4:3, the F12 always has the right resolution available for your application.

### **DLP technology, RealColor and VIDITM for stunning images**

Geared with single-chip DLP technology, the F12 offers reliable images with high brightness and contrast for applications that need to run continuously. What's more, DLP technology will not degrade when subjected to UV light. Philips' VIDITM technology enables dynamic lamp driving over time, and enhances image quality through reducing grey scale artifacts, adding to color saturation, enhancing contrast, and improving lamp stability. Unlike non-VIDI based projectors, the lamp power is digitally controlled, as is its performance over time.

### **RealColor for multi-channel systems**

Thanks to the unique color matching and calibration tools provided in the RealColor



management suite, the F12 allows you to easily calibrate and set up images for edge blending and multi-channel installations. Deep black levels and a high level of black and white uniformity all add to the projector's impressive performance. As a custom option, manual optical color matching is also offered.

### **Low Frequency Maintenance program**

The Low Frequency Maintenance program can be set to automatically notify you of the required service and maintenance. When running continuously, moving parts such as fans and color wheels require periodic replacement to secure operation. The lifetime of any component is 8,000 hours, or a year of non-stop operation.

**PRODUCT SPECIFICATIONS****F12 SERIES**

Concept	prism-less field lens design
3D capability	INFITEC EX@ 3D
Color wheel	High Brightness / VizSim / VizSim Bright
Resolution	SXGA+ (1,400 x 1,050) / 1080p (1,920 x 1,080) / WUXGA (1,920 x 1,200)
Technology	single-chip professional grade DLP projector
Brightness	Up to 4,100 lumens (brightness depends on color wheel, lamp power and general settings)
Contrast	Up to 4,000 : 1
Aspect ratio	4:3 (SXGA+) / 16:9 (1080p) / 16:10 (WUXGA)
Display colors	30-bit RGB
Latency	~22 ms with graphics inputs
Computer graphics formats	WUXGA, UXGA, SXGA+, SXGA, XGA, SVGA, VGA / 1,920 x 1,080 - 640 x 480 pixel resolution / custom formats available
Horizontal scan frequencies	15 - 150 kHz (resolution dependant)
Vertical scan frequencies	48 - 190 Hz (resolution dependant)
Video formats	HDTV (1080p, 1080i, 720p) / NTSC, PAL, SECAM
Lens operation	Focus and Manual zoom
Lenses	<ul style="list-style-type: none"><li>■ Standard projection lens EN08 - throw ratios: 1.73 - 2.17 : 1 (SXGA+) / 1.60 - 2.00 : 1 (1080p) / 1.60 - 2.00 : 1 (WUXGA)</li><li>■ Wide Angle EN10 lens - throw ratios: 1.03 : 1 (SXGA+) / 0.95 : 1 (1080p) / 0.95 : 1 (WUXGA)</li></ul>
	F12 lenses are not interchangeable
Light source	300W UHP replacement lamp / 220W UHP replacement lamp
Lamp lifetime	300W: up to 2,000 hours (Full power) / up to 2,250 hours (Eco mode) 200W: up to 2,500 hours (Full power) / up to 3,000 hours (Eco mode)
Computer inputs	1 x DVI-D, 1 x HDMI 1.3a, 1 x VGA
Video Input	1 x HDMI 1.3a, 1 x YPbPr, 1 x S-video, 1 x Composite
Control possibilities	1 x RJ-45 TCP/IP, 2 x 9-pin D-SUB RS232, 1 x USB, 2 x 12V programmable trigger (3.5mm mini jack), 1 x Wired Remote 3.5mm mini jack
Dimensions	300 x 104 x 278 mm (WxHxD)
Weight	3.5 kg
Shipping Dimensions	440 x 440 x 380 mm (WxHxD)
Shipping Weight from Factory	8.4 kg
Power requirements	5.0-1.7A, 100-240V, 50-60Hz
Conformances	CE, FCC Class A, UL, cUL and cCSAus
Operating temperature	10 - 40 °C
Storage temperature	-20 - 60 °C
Operating humidity	20 - 80% RH
Storage humidity	10 - 90% RH
Color	Black metallic
Warranty	24/7, 3 years, 500 hours or 90 days on lamp (whichever comes first). Up to 5 years total warranty available. Conditions apply.
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.

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MTBF	63,492 hours
BTU per hour	less than 1,433

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**Last updated: 21 Jan 2018**

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