

# F12 series

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



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 VIDI™ 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' VIDI™ 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.

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## **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**

<b>Technology</b>	single-chip professional grade DLP projector
<b>Concept</b>	prism-less field lens design
<b>3D capability</b>	INFITEC EX® 3D
<b>Color wheel</b>	High Brightness / VizSim / VizSim Bright
<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 4,100 lumens (brightness depends on color wheel, lamp power and general settings)
<b>Contrast</b>	Up to 4,000 : 1
<b>Aspect Ratio</b>	4:3 (SXGA+) / 16:9 (1080p) / 16:10 (WUXGA)
<b>Display colors</b>	30-bit RGB
<b>Latency</b>	~22 ms with graphics inputs
<b>Computer graphics formats</b>	WUXGA, UXGA, SXGA+, SXGA, XGA, SVGA, VGA / 1,920 x 1,080 - 640 x 480 pixel resolution / custom formats available
<b>Horizontal scan frequencies</b>	15 - 150 kHz (resolution dependant)
<b>Vertical scan frequencies</b>	48 - 190 Hz (resolution dependant)
<b>Video formats</b>	HDTV (1080p, 1080i, 720p) / NTSC, PAL, SECAM
<b>Lens operation</b>	Focus and Manual zoom
<b>Lenses</b>	<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
<b>Light source</b>	300W UHP replacement lamp / 220W UHP replacement lamp
<b>Lamp lifetime</b>	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)
<b>Computer inputs</b>	1 x DVI-D, 1 x HDMI 1.3a, 1 x VGA
<b>Video Input</b>	1 x HDMI 1.3a, 1 x YPbPr, 1 x S-video, 1 x Composite
<b>Control possibilities</b>	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
<b>Dimensions</b>	300 x 104 x 278 mm (WxHxD)
<b>Weight</b>	3.5 kg
<b>Shipping Dimensions</b>	440 x 440 x 380 mm (WxHxD)
<b>Shipping Weight from Factory</b>	8.4 kg
<b>Power requirements</b>	5.0-1.7A, 100-240V, 50-60Hz
<b>Conformances</b>	CE, FCC Class A, UL, cUL 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>	24/7, 3 years, 500 hours or 90 days on lamp (whichever comes first). Up to 5 years total warranty available. Conditions apply.
<b>24-7 documentation</b>	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.
<b>MTBF</b>	63,492 hours
<b>BTU per hour</b>	less than 1,433