

# F32 series

High-performance single-chip DLP projector with WUXGA, 1080p or SXGA+ resolution up to 8,000 lumens



- **Stable, high-contrast images**
- **Customizable brightness, contrast and color wheel**
- **Intelligent active cooling for extended reliability and lifetime**

The F32 series of high-class single-chip DLP® projectors is specifically designed for graphically challenging applications where image quality and reliability are key requirements. Available with up to 8,000 lumens brightness, WUXGA, 1080p or SXGA+ resolution and different color wheels, it is perfectly suited for 24/7 operation in a wide range of applications for small- to mid-sized venues.

### **Reliable and high-quality DLP images**

Geared with single-chip DLP technology, the F32 generates stable, high-contrast images with deeply saturated colors. Every projector model can be calibrated to exacting color standards, coupled with a desired brightness and contrast. What's more, the DLP chip will not degrade under UV light and guarantees a constant performance. Thanks to Texas Instruments' BrilliantColor™ technology, color performance and picture quality are greatly improved. Offering six-color processing, BrilliantColor provides a wide color gamut, boosts secondary colors and delivers reliable and precise colors.

### **The right color wheel for your configuration**

Each F32 can be configured with a range of color wheel options, either High Brightness, Graphics, or VizSim, each with specific characteristics. As the VizSim color wheel focuses on color quality, it lowers color cross-talk and contamination, and reduces artifact. The Graphics version offers a lower saturation, but higher brightness for general AV use, and the High Brightness option provides high-brightness with stunning colors.

### **RealColor color management**

RealColor is a unique color management calibration suite that enables edge blending for an unlimited number of projectors and ensures uniform images for



multi-channel installations. It provides a unique and quick way to calibrate and set up perfect images and allows you to adjust them, simply by changing the characteristics such as color temperature. RealColor works by mathematically calculating each color independently.

### **Intelligent active cooling**

The F32 features intelligent active cooling of the entire system for reduced noise and extended reliability and lifetime, offering closer control of all key elements of the projector. Using the thermo-electric cooling principle, power is applied to actively cool key elements throughout the projector.

### **VIDI™ lamp technology**

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.

**PRODUCT SPECIFICATIONS****F32 SERIES**

<b>Concept</b>	Single chip, powered lens shift system
<b>3D capability</b>	INFITEC EX@ 3D
<b>Color wheel</b>	High Brightness / VizSim
<b>Resolution</b>	SXGA+ (1,400 x 1,050) / 1080p (1,920 x 1,080) / WUXGA (1,920 x 1,200)
<b>Technology</b>	Single-chip DLP® projector LVDS DMD™ with DarkChip3™
<b>Brightness</b>	Up to 8,000 lumens (adjustable iris and lamp power enables infinite variation in light output to fit various requirements)
<b>Contrast</b>	Up to 7,500 : 1 (full on/off with lens IRIS stopped down)
<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>	1,920 x 1,200 -640 x 480 pixel resolution / RGBHV, RGBS, RGsB / 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>	Motorized zoom, focus, shift, iris and mechanical shutter
<b>Lenses</b>	<ul style="list-style-type: none"> <li>■ Standard projection lens EN11</li> <li>■ Ultra Wide Angle lens E12</li> <li>■ Wide Angle Zoom EN13</li> <li>■ Short Tele Zoom lens EN14</li> <li>■ Wide Angle lens EN15</li> <li>■ Long Tele Zoom</li> <li>■ Wide Angle lens EN33</li> <li>■ Hemispherical lens 1-19036</li> <li>■ Hemispherical HR95</li> </ul>
<b>Image width</b>	0.7 -20 m
<b>Light source</b>	2 x 300W UHP VIDI
<b>Lamp lifetime</b>	Up to 2, 000 hours (full power) / 2,500 hours (Eco mode)
<b>Computer inputs</b>	1 x DVI-D, 1 x HDMI 1.3a, 1 x VGA, 1 x 5-BNC
<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, 2 x 12V programmable trigger (3.5mm mini jack), 1 x USB
<b>Dimensions</b>	510 x 233 x 376 mm (WxHxD)
<b>Weight</b>	12.6 kg
<b>Shipping Dimensions</b>	520 x 370 x 780 mm (WxHxD)
<b>Shipping Weight from Factory</b>	20 kg
<b>Power requirements</b>	8.4A ~100-240V 50-60Hz
<b>Conformances</b>	CE, FCC Class A and cNus
<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>	Limited 3 years parts and labour. Up to 5 years total extended 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>	34,662 hours
<b>BTU per hour</b>	less than 2,900

Last updated: 27 Mar 2019

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