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
Concept	Single chip, powered lens shift system
3D capability	INFITEC EX® 3D
Color wheel	High Brightness / VizSim
Resolution	SXGA+ (1,400 x 1,050) / 1080p (1,920 x 1,080) / WUXGA (1,920 x 1,200)
Technology	Single-chip DLP® projector LVDS DMD™ with DarkChip3™
Brightness	Up to 8,000 lumens (adjustable iris and lamp power enables infinite variation in light output to fit various requirements)
Contrast	Up to 7,500 : 1 (full on/off with lens IRIS stopped down)
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	1,920 x 1,200 - 640 x 480 pixel resolution / RGBHV, RGBS, RGsB / 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	Motorized zoom, focus, shift, iris and mechanical shutter
Lenses	■ Standard projection lens EN11 ■ Ultra Wide Angle lens E12 ■ Wide Angle Zoom EN13 ■ Short Tele Zoom lens EN14 ■ Wide Angle lens EN15 ■ Long Tele Zoom ■ Wide Angle lens EN33 ■ Hemispherical lens 1-19036 ■ Hemispherical HR95
Image width	0.7 - 20 m
Light source	2 x 300W UHP VIDI
Lamp lifetime	Up to 2, 000 hours (full power) / 2,500 hours (Eco mode)
Computer inputs	1 x DVI-D, 1 x HDMI 1.3a, 1 x VGA, 1 x 5-BNC
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, 2 x 12V programmable trigger (3.5mm mini jack), 1 x USB
Dimensions	510 x 233 x 376 mm (WxHxD)
Weight	12.6 kg
Shipping Dimensions	520 x 370 x 780 mm (WxHxD)
Shipping Weight from Factory	20 kg
Power requirements	8.4A ~100-240V 50-60Hz
Conformances	CE, FCC Class A and cNus
Operating temperature	10 - 40 °C
Storage temperature	-20 - 60 °C
Operating humidity	20 - 80% RH
Storage humidity	10 - 90% RH
Color	Black metallic
Warranty	Limited 3 years parts and labour. Up to 5 years total extended warranty available. Conditions apply.

PRODUCT SPECIFICATIONS	F32 SERIES
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.
MTBF	34,662 hours
BTU per hour	less than 2,900

Last updated: 21 Jan 2018

Technical specifications are subject to change without prior notice. Please check www.barco.com for the latest information.