

F82 series

3-chip DLP® venue projector



The 3-chip DLP F82 projector is designed for 24/7 operation. With a wealth of options for accurately adjusting color and brightness performance, the F82 series can be tailored to a wide range of applications, focusing on large screen video centric displays and events. The F82 series projector is available with a variety of filter sets to cover all color standards from sRGB to REC709 color spaces to DCI colors.

Reliable DLP technology

The reliable DLP technology from Texas Instruments® offers unmatched image quality and performance. What's more, DLP technology has proven to be the most reliable of all microdisplays and will not degrade when subjected to UV light, inherent in all projectors.

Precise projection lens optics

The F82 series comes with a wide range of custom-made projection lenses for high-quality images and a reliable setup. Key features include adjustable IRIS and aperture settings, motorized zoom, focus and shift with memory function for use in multiple settings with programmed calibration. Most importantly, every lens uses Low Dispersion (LD) and aspherical glass elements for high-quality focusing and sharpness, as well as high optical interfield contrast. The lenses range from an ultra wide angle 0.8 : 1, to a super tele zoom 6.5 : 1.

Advanced optical color processing

The F82 series projectors feature powerful optical color processing technology. By combining fixed and motorized optical filters for each color channel, the projector can be optically calibrated with ultimate accuracy. This also means that you can easily change the projected color gamut from standard computer



graphics optimized, to either REC709 (High Definition programming) or a P3 color gamut that complies with strict DCI color specifications, without any loss in bit depth. What's more, the F82 features the unique RealColor color calibration technology that makes it possible to match any number of projectors, and ensure they all project the same primaries and grey scale.

Low Total Cost of Ownership

The required maintenance for the F82 series has been reduced to a minimum. There are no user-serviceable parts inside, and it does not have any filters or other parts that require periodical replacement. The F82's lamp replacement cost is low, and typical lamp life is long for a low total cost of ownership.

PRODUCT SPECIFICATIONS**F82 SERIES**

Concept	Three chip, powered lens shift system with user adjustable optical color processing filters.
Resolution	SXGA+ (1,400 x 1,050) / 1080p (1,920 x 1,080) / WUXGA (1,920 x 1,200)
Brightness	Up to 10,000 lumens
Contrast	Up to 15,000 : 1
Technology	Three chip DLP® projector with APOC optical color processing and user selectable optical color space (sRGB, REC709 or optionally DCI). Individual color filters for R, G, and B channels for optimum color accuracy and application adaptability.
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	EDTV (576p, 480p) / SDTV (576i, 480i) / HDTV (1080p, 1080i, 720p) / NTSC, PAL, SECAM
Lens operation	Motorized zoom, Focus, Shift, Iris and Mechanical shutter
Lenses	<ul style="list-style-type: none"> ■ Standard projection lens EN21 – throw ratios: 1.84 - 2.76 : 1 (SXGA+) / 1.70 - 2.55 : 1 (1080p) / 1.70 - 2.55 : 1 (WUXGA) ■ Ultra Wide Angle lens EN22 – throw ratios: 0.80 : 1 (SXGA+) / 0.74 : 1 (1080p) / 0.74 : 1 (WUXGA) ■ Wide Angle Zoom lens EN23 – throw ratios: 1.30 - 1.84 : 1 (SXGA+) / 1.20 - 1.70 : 1 (1080p) / 1.20 - 1.70 : 1 (WUXGA) ■ Short Tele Zoom lens EN24 – throw ratios: 2.71 - 4.33 : 1 (SXGA+) / 2.50 - 4.00 : 1 (1080p) / 2.50 - 4.00 : 1 (WUXGA) ■ Long Tele Zoom EN26 – throw ratios: 4.22 - 6.76 : 1 (SXGA+) / 3.90 - 6.24 : 1 (1080p) / 3.90 - 6.24 : 1 (WUXGA)
Image width	2 -10 m
Light source	2 x 330W UHP
Lamp lifetime	Up to 2,000 hours (Full power) / Up to 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 / 1 x USB / 2 x 12V programmable trigger (3.5mm mini jack)
Dimensions	604 x 250 x 462 mm (WxHxD)
Weight	24.1 kg
Shipping Dimensions	820 x 420 x 720 mm (WxHxD)
Shipping Weight from Factory	32 kg
Power requirements	12.5A or 6.5A, 100-120V or 200-240V, 50-60Hz
Conformances	CE, FCC Class A, UL and cUL
Operating temperature	10 -40 °C
Storage temperature	-20 -60 °C
Altitude	Up to 2000 m
Operating humidity	20 -90% RH
Storage humidity	20 -90% RH
Color	Soft touch rubber matte black
Warranty	3 years, 500 hours or 90 days on lamp (whichever comes first). Up to 2 years warranty extension available. Conditions apply.
MTBF	24,346 hours
BTU per hour	less than 2,900

Last updated: 24 Feb 2021

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