

# F85 series

## Compact 3-chip 3D DLP projector



- Designed for 24/7 operation
- Advanced processing for accurate colors
- Active or passive 3D up to 120 Hz

The F85 is a compact 3-chip DLP projector that is suitable for 24/7 operation in both rental and fixed installations. Thanks to its active or passive 3D up to 120 Hz, the F85 is equally perfect for simulation applications for oil and gas, automotive prototyping and scientific research. What's more, it provides a low total cost of ownership.

### High-class performance and image quality

The F85 pairs high-class performance with ultimate reliability in a compact form factor. It is available with a large range of lenses that cover different focal distances for true flexibility. Featuring high brightness levels, optical color filtering for accurate colors, 3D stereo and configurable X-PORT™ I/O and image processing, unequalled image quality is guaranteed at all times. To tailor your F85 to your specific application, you can choose from WUXGA and 1080p resolution, as well as a special projector type that can optically switch between REC709 and DCI P7 color spaces.

- 3-chip DLP® Technology
- Active 3D stereo at up to 120 Hz
- Up to 11,000 lumens
- X-PORT™ module connectivity
- Designed for 24/7 operation
- WUXGA or 1080p resolution
- Dual 400W UHP™ lamps
- Advanced Color Optical Processing (ACOP)
- RealColor™ color management
- Up to five years warranty
- Wide range of Ultra High Quality projection lenses

**PRODUCT SPECIFICATIONS****F85 SERIES**

Concept	Three-chip, powered lens shift system with user adjustable optical colour processing filters.
3D capability	Active Stereo
Resolution	1080p (1,920 x 1,080), WUXGA (1,920 x 1,200)
Brightness	Up to 11,000 lumens (user-configurable through lamp power and voice coil operated IRIS adjustment)
Contrast	Up to 15,000 : 1 (Fixed user-adjustable through voice coil operated IRIS F2-6 -7.0 or user activated adaptive dynamic IRIS feature)
Technology	Three-chip DLP® projector with APOC optical color processing and user-selectable optical color space (sRGB, REC709 or optionally DCI). Individual color filters are available for R, G, and B channels for optimum color accuracy and full flexibility.
Aspect ratio	16:9 (1080p), 16:10 (WUXGA)
Display colors	30-bit RGB
Latency	~19 ms
Computer graphics formats	2,560 x 1,600 -640 x 480 pixel resolution / RGBHV, RGBS, RGSB / custom formats available
Horizontal scan frequencies	10 -150kHz
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"><li>■ Standard projection lens EN21</li><li>■ Ultra Wide Angle lens EN22 lens</li><li>■ Wide Angle Zoom EN23 lens</li><li>■ Short Tele Zoom EN24 lens</li><li>■ Long Tele Zoom EN23 lens</li></ul>
Image width	2 -10 m
Light source	400W UHP replacement lamp 1 / 400W UHP replacement lamp 2
Lamp lifetime	Up to 1,500 hours (full power) / Up to 2,000 hours (eco mode)
Computer inputs	2 x DVI-D, 2 x HDMI 1.3a, 2 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, 1 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	100-240 V / 207 -264 VAC, 50-60 Hz / Max 1,080 W / 4.7 A @ 230 V, 4.7 A @ 240 V, 11.3A @ 100V
Conformances	CE, FCC Class A, UL and cUL
Operating temperature	10 -40 °C
Storage temperature	-20 -60 °C
Altitude	Up to 3,000 m
Color	Soft touch rubber matte black
Warranty	3 years, 500 hours or 90 days on lamp (whichever comes first). Up to 5 years total warranty available. Conditions apply.
MTBF	24,184 hours
BTU per hour	

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