

# F85 series

## Compact 3-chip 3D DLP projector



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.

**BARCO**

Visibly yours

**Product specifications****F85 series**

<b>Technology</b>	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.
<b>Concept</b>	Three-chip, powered lens shift system with user adjustable optical colour processing filters.
<b>3D capability</b>	Active Stereo
<b>Resolution</b>	1080p (1,920 x 1,080), WUXGA (1,920 x 1,200)
<b>Brightness</b>	Up to 11,000 lumens (user-configurable through lamp power and voice coil operated IRIS adjustment)
<b>Contrast</b>	Up to 15,000 : 1 (Fixed user-adjustable through voice coil operated IRIS F2-6 - 7.0 or user activated adaptive dynamic IRIS feature)
<b>Aspect Ratio</b>	16:9 (1080p), 16:10 (WUXGA)
<b>Display colors</b>	30-bit RGB
<b>Latency</b>	~19 ms
<b>Computer graphics formats</b>	2,560 x 1,600 - 640 x 480 pixel resolution / RGBHV, RGBS, RGSB / custom formats available
<b>Horizontal scan frequencies</b>	10 - 150kHz
<b>Vertical scan frequencies</b>	50 - 110 Hz
<b>Video formats</b>	EDTV (576p, 480p), SDTV (576i, 480i), 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 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>
<b>Image width</b>	2 - 10 m
<b>Light source</b>	400W UHP replacement lamp 1 / 400W UHP replacement lamp 2
<b>Lamp lifetime</b>	Up to 1,500 hours (full power) / Up to 2,000 hours (eco mode)
<b>Computer inputs</b>	2 x DVI-D, 2 x HDMI 1.3a, 2 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, 1 x USB, 2 x 12V programmable trigger (3.5mm mini jack)
<b>Dimensions</b>	604 x 250 x 462 mm (WxHxD)
<b>Weight</b>	24.1 kg
<b>Shipping Dimensions</b>	820 x 420 x 720 mm (WxHxD)
<b>Shipping Weight from Factory</b>	32 kg
<b>Power requirements</b>	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
<b>Conformances</b>	CE, FCC Class A, UL and cUL
<b>Operating temperature</b>	10 - 40 °C
<b>Storage temperature</b>	-20 - 60 °C
<b>Altitude</b>	Up to 3,000 m
<b>Color</b>	Soft touch rubber matte black
<b>Warranty</b>	3 years, 500 hours or 90 days on lamp (whichever comes first). Up to 5 years total warranty available. Conditions apply.
<b>MTBF</b>	24,184 hours
<b>BTU per hour</b>	