## 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, unequaled 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.



Three-thp DLPB projector with APOC optical color processing and user-selectable optical color spotes (ACID RECOV) or optionally (A)). Individual color (Inters are available for P. C., on did Schannels for optimum color accuracy and full flexibility.  Active Screen  3D capability  Active Screen  1080p (1,920 x 1,080), WUXSA (1,920 x 1,200)  Brightness  Up to 11,000 lumens (sper configurable through lamp power and voice coil operated files adultations)  Contrast  Up to 15,000 x 1 ((read user adjustable through lamp power and voice coil operated files adultations)  Contrast  Up to 15,000 x 1 ((read user adjustable through woke coil operated files F2 6 - 7.0 or user activated adeapative dynamic lifes feature)  Aspect Ratio  16,9 (1080p), 16-10 (WUXSA)  Display colors  30 bit RGB  16,9 (1080p), 16-10 (WUXSA)  Display colors  30 bit RGB  10, 15 (MV XAA)  2, 560 x 1,600 - 640 x 480 pixel resolution / RGBHY, PGBS, RGSB / custom formular savelable  Workfortal scan frequencies  10, 15 (MV XAA)  Wideo formats  Entry (576p, 480p), SDIY (576t, 480p), HDIY (1080p, 1080t, 720p), NTSC, PAL, SECAN, SE	Product specifications	F85 series
and capability Active Steree  Resolution 1080 pt (1,920 x 1,080), WUXGA (1,920 x 1,200)  Brightness Up to 11,000 furness (user configurable through lamp power and voice coil operated IRIS F2-6 - 7.0 or operated IRIS adjustment) Contrast Up to 15,000 : 1 (Fixed user-adjustable through worke coil operated IRIS F2-6 - 7.0 or operated IRIS	Technology	optical color space (sRGB, REC709 or optionally DCI). Individual color filters are
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 like 3 daysument)           Contrast         Up to 15,000 ± 1 (rived user-adjustable through voice coil operated like 5 F2-6 - 7.0 or user activated adaptable with well warm in like 5 feature)           Aspect Ratio         16-9 (1080p), 16-10 (WUXGA)           Display colors         30-bit K6B           Latency         -19 ms           Computer graphics formats         2,550 x 1,600 - 640 x 480 pixel resolution / RGBHY, RGBS, RGSB / custom formats available           Horizontal scan frequencies         10 - 150kHz           Vertical scan frequencies         50 - 110 Hz           Video formats         250f0 x 1,600 - 640 x 480 pixel resolution / RGBHY, RGBS, RGSB / custom formats available           Lens operation         Motorized zoom, focus, shift, iris and mechanical shutter           Lens operation         Motorized zoom, focus, shift, iris and mechanical shutter           Lenses         *** Standard projection lens RN21****           *** Wide Angle Irason RN21***         *** Units****           ** Units*** Wide Angle Irason RN21***         *** Units***           ** Units** Wide Angle Irason RN21***         *** Units***           ** Units** Wide Angle Irason RN21***         *** Short Ticle Zoom RN23**           ** Irason Brace<	Concept	Three-chip, powered lens shift system with user adjustable optical colour processing filters.
Brightness         Up to 11,000 lumens (user-configurable through lamp power and voice coil operated IRIS F2-6 - 7.0 perated IRIS F2-6 - 7.0 or user activated adaptative dynamic IRIS feature)           Contrast         Up to 15,000 : 1 (Fixed user-adjustable through voice coil operated IRIS F2-6 - 7.0 or user activated adaptative dynamic IRIS feature)           Aspect Ratio         16-9 (1880p., 16-10 (WUXGA)           Display colors         30-bit REG           Latency         -19 ms           Computer graphics formats         10 - 150kHz           Workland Saan frequencies         10 - 150kHz           Video formats         EDIY (576p., 480p), SDIY (576i, 480n), HDIY (1080p, 1080i, 720p), NTSC, PAL, SECAM           Lens operation         Motorized zoom, focus, shift, iris and mechanical shutter           Lenses         Standard projection lens EN21 ers           Ultra Wide Angle Iens EN22 lens         Ultra Wide Angle Iens EN22 lens           Under Angle Iens EN22 lens         Short Tele Zoom EN23 lens           Long Tele Zoom EN23 lens         Long Tele Zoom EN23 lens           Image width         2 - 10 m           Light source         4000W URP replacement lamp 1 / 400W URP replacement lamp 2           Lamp lifetime         Up to 1,500 hours (full power) / Up to 2,000 hours (eco mode)           Computer inputs         2 x WP1-0, x HDM1 13a, 2 x Y6A, 1 x 5 ENC           Video Input         1	3D capability	Active Stereo
Contrast  Up to 15,000 - 1 (Fixe diser-adjustable through voice coil operated IRIS F2-6 - 7.0 of user activated adapative dynamic IRIS feature)  Aspect Ratio  16-9 (1080p.), 16-10 (WUXGA)  Display colors  30-bit R6B  Latency  -19 ms  Computer graphics formats  2, 560 x 1,000 - 640 x 480 pixel resolution / RGBHV, RGBS, RGSB / custom formats available  Horizontal scan frequencies  10 - 150kHz  Vertical scan frequencies  50 - 110 Hz  Wideo formats  Enpry (876p. 480p), SDTV (576i, 480i), HDTV (1080p, 1080i, 720p), NTSC, PAL, SECAM  Lens operation  Motorized zoom, focus, shift, iris and mechanical shutter  Lenses  Solution of projection lens EN21  Ultina Wide Angle Zoom EN23 lens  Wide Angle Zoom EN23 lens  Long Tele Zoom EN24 lens  Long Tele Zoom EN24 lens  Long Tele Zoom EN25 lens  Long Tel	Resolution	1080p (1,920 x 1,080), WUXGA (1,920 x 1,200)
or user activated adapative dynamic IRIS feature)  1.6-9 (1080p), 16-10 (WUXGA)  Display colors  3	Brightness	Up to 11,000 lumens (user-configurable through lamp power and voice coil operated IRIS adjustment)
Display colors Latency -19 ms Computer graphics formats 2,560 x 1,600 - 640 x 480 pixel resolution / RGBHY, RGBS, RGSB / custom formats available Horizontal scan frequencies 10 - 150kHz Vertical scan frequencies 50 - 110 Hz Video formats EDTV (576p, 480p), SDTV (576i, 480i), HDTV (1080p, 1080i, 720p), NTSC, PAL, SECAM SECAM / RGBP, ASDP, SDTV (576i, 480i), HDTV (1080p, 1080i, 720p), NTSC, PAL, SECAM / RGBP, ASDP, SDTV (576i, 480i), HDTV (1080p, 1080i, 720p), NTSC, PAL, SECAM / RGBP, ASDP, SDTV (576i, 480i), HDTV (1080p, 1080i, 720p), NTSC, PAL, SECAM / RGBP, ASDP, SDTV (576i, 480i), HDTV (1080p, 1080i, 720p), NTSC, PAL, SECAM / RGBP, ASDP, SDTV (576i, 480i), HDTV (1080p, 1080i, 720p), NTSC, PAL, SECAM / RGBP, ASDP, SDTV (576i, 480i), HDTV (1080p, 1080i, 720p), NTSC, PAL, SECAM / RGBP, ASDP, A	Contrast	Up to 15,000 : 1 (Fixed user-adjustable through voice coil operated IRIS F2-6 - 7.0 or user activated adapative dynamic IRIS feature)
Latency 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 50 - 110 Hz  Video formats EDTY (576p, 480p), SDTV (576i, 480i), HDTV (1080p, 1080i, 720p), NTSC, PAL, SECAM SECAM Lens operation Motorized zoom, focus, shift, iris and mechanical shutter  Lenses  Standard projection lens EN21 Ultra Wide Angle lens EN22 lens Wide Angle zoom EN23 lens Short Tele Zoom EN24 lens Stong Tele Zoom EN24 lens Stong Tele Zoom EN24 lens Up to 1,500 hours (full power) / Up to 2,000 hours (seco mode)  Computer inputs 1 x HDM1 1.3a, 1 x YPDPr, 1 x 5-Mde, 1 x Composite  Computer inputs 1 x HDM1 1.3a, 1 x YPDPr, 1 x 5-Mde, 1 x Composite  Control possibilities 1 x RJ-45 TEP/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 1 x HDM2 x 720 mm (WxHxD)  Weight 1 y Has TEP/IP, 2 x 9-pin D-SUB RS232, 1 x USB, 2 x 12V programmable trigger (3,5mm mini jack) 1 x BDP x 720 x 720 mm (WxHxD)  Weight 1 x BDP x 720 x 720 mm (WxHxD)  Weight 1 x BDP x 720 x 720 mm (WxHxD)  Weight 1 x BDP x 720 x 720 mm (WxHxD)  Weight 1 x BDP x 720 x 720 mm (WxHxD)  Weight 1 x BDP x 720 x 720 mm (WxHxD)  Weight 1 x BDP x 720 x 720 mm (WxHxD)  Weight 1 x BDP x 720 x 720 mm (WxHxD)  Weight 1 x BDP x 720 x 720 mm (WxHxD)  Weight 1 x BDP x 720 x 720 mm (WxHxD)  Weight 1 x BDP x 720 x 720 mm (WxHxD)  Weight 1 x BDP x 720 x	Aspect Ratio	16:9 (1080p), 16:10 (WUXGA)
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  50 - 110 Hz  Video formats  EDTY (576p, 480p), SDTY (576i, 480i), HDTY (1080p, 1080i, 720p), NTSC, PAL, SECAM  Lens operation  Motorized zoom, focus, shift, iris and mechanical shutter  Lenses  1	Display colors	30-bit RGB
formats available     Horizontal scan frequencies   10 - 150kHz     Video formats   50 - 110 Hz     Video formats   EDTY (576p, 480p), 5DTY (576i, 480i), HDTY (1080p, 1080i, 720p), NTSC, PAL, SECAM     ELens operation   Motorized zoom, focus, shift, iris and mechanical shutter     Lenses   Standard projection lens EN21     Ultra Wide Angle Post EN22 lens     Wide Angle Zoom EN23 lens     Wide Angle Zoom EN23 lens     Nont Tele Zoom EN23 lens     Hong 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 YPBPT, 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   100-240 V / 207 - 264 VAC, 50-60 Hz / Max 1,080 W / 4.7 A @ 230 V, 4.7 A @ 240 V, 1.3.8 @ 100V     Conformances   CE, FCC Lass A, UL and cUL     Operating temperature   10 - 40 ° 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.	Latency	~19 ms
Vertical scan frequencies     50 - 110 Hz       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     • Standard projection lens EN21	Computer graphics formats	
Video formats       EDTV (576p, 480p), SDTV (576i, 480r), HDTV (1080p, 1080i, 720p), NTSC, PAL, SECAM SECAM SECAM Motorized zoom, focus, shift, iris and mechanical shutter         Lenses	Horizontal scan frequencies	10 - 150kHz
Lens operation  Lenses  Standard projection lens EN21  Ultra Wide Angle Pom EN22 lens  Wide Angle Pom EN23 lens  Short Tele Zoom EN24 lens  Long Tele Zoom Env24 lens  Long Tele Z	Vertical scan frequencies	50 - 110 Hz
Lenses  ■ Standard projection lens EN21 ■ Ultra Wide Angle lens EN22 lens ■ Wide Angle lens EN22 lens ■ Wide Angle Poom EN23 lens ■ Short Tele Zoom EN24 lens ■ Long Tele Zoom EN23 lens ■ Long Tele Zoom EN24 lens ■ Long Tele Zoom EN23 lens ■ Long Tele Zoom EN24 le	Video formats	
Salator   Wide Angle Pone EN22 lens	Lens operation	Motorized zoom, focus, shift, iris and mechanical shutter
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 5-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 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 10 - 40 °C  Altitude Up to 3,000 m  Color Soft touch rubber matte black  Warranty Warranty available. Conditions apply.  MTBF 24,184 hours	Lenses	<ul> <li>Ultra Wide Angle lens EN22 lens</li> <li>Wide Angle Zoom EN23 lens</li> <li>Short Tele Zoom EN24 lens</li> </ul>
Lamp lifetimeUp to 1,500 hours (full power) / Up to 2,000 hours (eco mode)Computer inputs2 x DVI-D, 2 x HDMI 1.3a, 2 x VGA, 1 x 5-BNCVideo Input1 x HDMI 1.3a, 1 x YPbPr, 1 x S-video, 1 x CompositeControl possibilities1 x RJ-45 TCP/IP, 2 x 9-pin D-SUB RS232, 1 x USB, 2 x 12V programmable trigger (3.5mm mini jack)Dimensions604 x 250 x 462 mm (WxHxD)Weight24.1 kgShipping Dimensions820 x 420 x 720 mm (WxHxD)Shipping Weight from Factory32 kgPower requirements100-240 V / 207 - 264 VAC, 50-60 Hz / Max 1,080 W / 4.7 A @ 230 V, 4.7 A @ 240 V, 11.3A @ 100VConformancesCE, FCC Class A, UL and cULOperating temperature10 - 40 °CStorage temperature-20 - 60 °CAltitudeUp to 3,000 mColorSoft touch rubber mattle blackWarranty3 years, 500 hours or 90 days on lamp (whichever comes first). Up to 5 years total warranty available. Conditions apply.MTBF24,184 hours	Image width	2 - 10 m
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Video Input1 x HDMI 1.3a, 1 x YPbPr, 1 x S-video, 1 x CompositeControl possibilities1 x RJ-45 TCP/IP, 2 x 9-pin D-SUB RS232, 1 x USB, 2 x 12V programmable trigger (3.5mm mini jack)Dimensions604 x 250 x 462 mm (WxHxD)Weight24.1 kgShipping Dimensions820 x 420 x 720 mm (WxHxD)Shipping Weight from Factory32 kgPower requirements100-240 V / 207 - 264 VAC, 50-60 Hz / Max 1,080 W / 4.7 A @ 230 V, 4.7 A @ 240 V, 11.3A @ 100VConformancesCE, FCC Class A, UL and cULOperating temperature10 - 40 °CStorage temperature-20 - 60 °CAltitudeUp to 3,000 mColorSoft touch rubber matte blackWarranty3 years, 500 hours or 90 days on lamp (whichever comes first). Up to 5 years total warranty available. Conditions apply.MTBF24,184 hours	Lamp lifetime	Up to 1,500 hours (full power) / Up to 2,000 hours (eco mode)
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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	Shipping Dimensions	820 x 420 x 720 mm (WxHxD)
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	Shipping Weight from Factory	32 kg
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	Power requirements	
Storage temperature  -20 - 60 °C  Altitude  Up to 3,000 m  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	Conformances	CE, FCC Class A, UL and cUL
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	Operating temperature	10 - 40 °C
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	Storage temperature	-20 - 60 °C
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total warranty available. Conditions apply.  MTBF 24,184 hours	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.
BTU per hour	MTBF	24,184 hours
	BTU per hour	



