

Accurate D65 & Gamma tracking

Excellent White Field Uniformity

FULL SPEC HD

D-ILA1080MF1 DIGITAL PROJECTOR



The optimisation process provides accurate colour temperature and Gamma tracking (see above), while the white field uniformity (above right) is superbly aligned for virtually zero deviation for an extraordinarily wide range of luminance values.

Two versions of the projector are available: The D-ILA1080MF1 (Normal/long-throw) and D-ILA1080MF1S, (Short-throw version). Use the adjacent chart to select the model that is appropriate for your combination of screen size and throw length.

Throw Length & Screen Size

Screen size	Short-focus zoom (1.5 to 2.1: 1 lens, aspect ratio: 16:9)						Long-focus zoom (2.0 to 3.8:1 lens, aspect ratio: 16:9)					
	Throw Distance						Throw Distance					
	Wide		Tele		Wide		Tele		Wide		Tele	
Diagonal	mm	ft.	m	ft.	m	ft.	m	ft.	m	ft.	m	ft.
60	1328	4.36	1.96	6.43	2.77	9.09	2.58	8.46	4.94	16.20		
70	1550	5.08	2.29	7.51	3.23	10.59	3.02	9.91	5.78	18.96		
80	1771	5.81	2.63	8.63	3.70	12.14	3.46	11.35	6.62	21.71		
90	1992	6.53	2.96	9.71	4.17	13.68	3.90	12.79	7.46	24.47		
100	2214	7.26	3.29	10.79	4.64	15.22	4.34	14.24	8.30	27.22		
110	2435	7.99	3.63	11.91	5.11	16.76	4.79	15.71	9.14	29.98		
120	2657	8.71	3.96	12.99	5.57	18.27	5.23	17.15	9.98	32.73		
130	2878	9.44	4.29	14.07	6.04	19.81	5.67	18.60	10.82	35.49		
140	3099	10.16	4.63	15.19	6.51	21.35	6.11	20.04	11.65	38.21		
150	3321	10.89	4.96	16.27	6.98	22.89	6.55	21.48	12.49	40.97		
160	3542	11.62	5.30	17.38	7.45	24.44	6.99	22.93	13.33	43.72		
170	3764	12.35	5.63	18.47	7.91	25.94	7.43	24.37	14.17	46.48		
180	3985	13.07	5.96	19.55	8.38	27.49	7.88	25.85	15.01	49.23		
190	4206	13.80	6.30	20.66	8.85	29.03	8.32	27.29				
200	4428	14.53	6.63	21.75	9.32	30.57	8.76	28.73				

Outline Specifications

Model	Meridian Faroudja D-ILA1080MF1 Home Theatre Projector	Resolution	1920 pixels x 1080 pixels
Emission Method	D-ILA (Direct drive Image Light Amplifier) (Reflective Active Matrix Principle)	Input Sync Frequency	Horizontal: 56.25 kHz, 67.43 kHz, 67.5 kHz Vertical: 50 Hz, 59.94 Hz, 60 Hz
Display Panel/Size:	D-ILA Device / 0.82in (1920 pixels 1080 pixels) x 3 (Total no. of pixels: Approx. 6,220,000). D-ILA devices are manufactured using extremely high-precision technology. Pixel effectiveness is 99.99%. Only 0.01% or less of the pixels will either not illuminate or remain permanently illuminated.	Inputs	Video In: DVI input via DVI-D (Single-24pin) connector, HDCP-compatible Control Service: RS-232C I/O via D-sub 9 pin 3.5 mm diameter, tip/ring/sleeve mini-jack
Projection Lens	Normal Throw version 1.9x power zoom lens (2.0:1 to 3.8:1) (Power zoom/focus adjustment) Short Throw version 1.4x power zoom lens (1.5:1 to 2.1:1) (Power zoom/focus adjustment)	Outputs	Screen Trigger: 3.5 mm diameter, tip/sleeve mini-jack
Light-source	200 W Ultra-high pressure mercury lamp [Part No.: BHL5008-S]	Power	AC 100 V - 240 V AC, 50/60 Hz
Screen Size	Approx. 60in to 200in (Aspect ratio: 16:9)	Rated Power	3.5 A (100 V AC) - 1.4 A (240 V AC)
Projection Distance	Normal Throw: Approx. 2.5 m to 15 m Short Throw: Approx. 2 m to 10 m	Environment	Temperature: 41 F to 95 F (+5 C to +35 C) Humidity: 20% to 80% (No condensation) Storage Temperature: 14 F to 140 F (-10 C to +60 C)
Input Signal	1080/60p or 1080/50p	Dimensions	20.2in x 7.6in x 22in approx. (W x H x D) (513 mm x 193.7 mm x 558.5 mm approx.) (Excluding lens and protrusion portion)
		Weight	Approx. 37.5 lbs (17.0 Kg)

Full-spec 1080p High Definition

Three 1920 x 1080 D-ILA chips for smooth, flicker-free high-resolution images

Cinema-quality picture: no visible grid

Professional-standard greyscale reproduction

Superior colour performance with true D65 colour temperature

Flexible installation

Low fan noise design

Cost-effective High Pressure Mercury Lamp

Optional Digital Video Processor

'Optimized by William Phelps' for a dramatic improvement in display performance

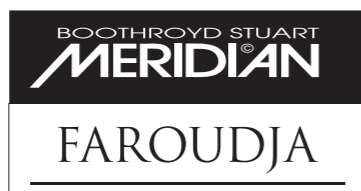
The **D-ILA1080MF1 Digital Projector** takes high performance theatre to a new level, utilising three 1920x1080 DILA-based display chips. With a native resolution equal to full-bandwidth High Definition, all the beauty and drama of the original source can be reproduced with stunning accuracy.

Each projector is 'Optimized by William Phelps™' in our UK factory using proprietary firmware, techniques and optical equipment developed by video expert William Phelps, to offer improved contrast ratio, excellent shadow detail and film-accurate colour.

Use the companion DVP1080MF Digital Video Processor to convert all analogue and digital high definition and standard definition sources to the native 1920x1080p resolution of the projector.

Employing the entire suite of Faroudja's patented technologies for colour reproduction, the processor's detail enhancement and motion tracking ensures that all sources produce film-like images full of depth and vibrant power. The combination of equipment, processing and optimisation offers the demanding theatre owner the result you have been waiting for.

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Three D-ILA chips for smooth, flicker-free high-resolution images

3-chip D-ILA (Direct Drive Image Light Amplifier) technology produces clear, natural images without the flicker or 'strobed rainbow' artefact effect that plagues other projectors. Images are as smooth as film, boasting incredible detail, thanks to the chips' native 1920 x 1080 resolution, which is based on a reliable, precision mirror reflective technology with no moving parts to produce the full-spec 1080p High Definition resolution you need to enjoy movies and HD video sources at their very best.

Cinema-quality picture with no visible grid

There is no visible grid of pixels or 'screen door effect' with D-ILA, so there's nothing to disrupt your enjoyment of true film-like authenticity – indeed, there's virtually nothing between you and the image. As a result, the outlines of objects are extremely smooth and natural.

Professional-standard greyscale reproduction

Analogue Gradation technology produces highly accurate shades with low noise, particularly in darker areas with less than 20% brightness. The quality of greyscale reproduction is further enhanced by a constant, high 2500:1 contrast ratio that ensures high-precision, high-quality pictures even when the on-screen image is dark. In addition, D-ILA technology reproduces blacks that are truly black, and there is impressively accurate rendering of shadow detail.

1080MF1: Accurate gradations; absolute white and black



Conventional projector: loss of detail in both dark and light areas



Superior colour performance

The optical engine produces rich, natural colours with smooth gradations and low noise. White field uniformity is tuned to near perfect, providing optimal cinema-style reproduction consistently from projector to projector. D-ILA also offers a uniform response, irrespective of brightness, displaying a wide range of intermediate tones.

D65 colour temperature

Reference standard D65 colour temperature ensures accurate colour reproduction of video and film originated programming. D65 performance and dynamic range is adjusted by an illumination system with RGB-optimised f-numbers. The colour gamut of D-ILA (see illustration, above right) is greater than that of any current television standard, ensuring accurate reproduction of virtually any programme material.

Flexible installation

To accommodate the widest variety of theatre sizes and configurations, two models are available, Normal Throw and Short Throw, each offering a different range of lens throw distances. The Normal Throw version features a 1.9x power zoom lens (2.0:1 to 3.8:1), while the Short Throw version (1080MF1-S) incorporates a 1.4x power zoom lens (1.5:1 to 2.1:1). Precision high-resolution all-glass lenses with motorised zoom and focus make installation a snap, while installation flexibility is further enhanced by lens shift capability of up to 60%. This allows the light path to be easily adjusted according to the installation position.

Low fan noise design

The cooling system's airflow design provides optimum cooling while keeping the noise level down to a near-silent 27 dB. Thanks to this low fan noise design, subtle sounds in quiet scenes on-screen are not overwhelmed by ambient noise.

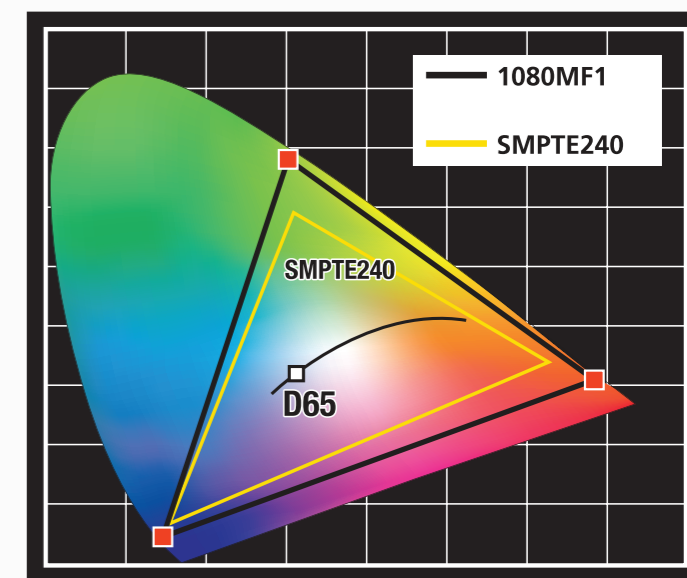
Cost-effective high-pressure Mercury Lamp

To keep running costs down, the MF1 projector uses a low-cost, long-life 200 W ultra high-pressure mercury lamp. The lamp can be easily replaced without de-mounting the projector, and only needs replacement every 2000 hours.

'Optimized by William Phelps'

To remove the guesswork from projector installation, each unit is individually precision-tuned and calibrated in our UK factory using technology, techniques and expertise developed exclusively by world-renowned video expert William Phelps. To take just one example: conventional calibration simply aligns a projector's white reference to a given colour temperature. However, colour temperature, surprisingly, does not tell you how accurate the colour rendering is. Only one point in the colour measurement coordinate system (D65) is actually correct - and our projectors are calibrated specifically to that point.

This, and the many other processes that make up a full William Phelps projector optimisation procedure, take several hours of painstaking work to perform – something that very, very few manufacturers can afford to do.



As this diagram shows, the colour gamut of the MF1 comfortably exceeds that of 1080i HDTV (SMPTE240)

Yes, this does increase the price of our projectors – but placed side by side, the difference is more than obvious: it's unmistakable.

Optional Digital Video Processor

The **1080MF1** projector has no internal scaling and is optionally available as a package with a powerful Meridian Faroudja digital video processor specially designed and matched to the projector, the **DVP1080MF** (left and below) that can be connected to a variety of video signals including 480i and 576i SD signals as well as 480p, 576p, 720p, 1080i and 1080p HD sources via composite, S-Video, progressive analogue and DVI inputs.

The processor features Faroudja's advanced motion adaptive de-interlacing with DCDi and 3:2 pull-down technology to ensure error-free progressive-scan signals.

Faroudja colour matrixing provides accurate colour profiles for PAL, NTSC and HDTV, allowing the processor to up-convert standard analogue and digital video inputs to a high-resolution, fully HDCP-compliant digital signal that can be transmitted via the DVI-D connector to the projector.

The processor also allows detailed video adjustments to suit viewer preferences, and custom user-defined configuration profiles can be established, saved and recalled at will to address an extensive range of operating requirements.

Step up to Full Spec High Definition!

Now all your video sources can look simply incredible, with sparkling colour, breathtaking clarity and film-like smoothness.



DVP1080MF rear panel