

Heimdall

Theater Series

PRELIMINARY



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Barco Residential Demo Pod Kortrijk, BE



Heimdall is the Norse god who illuminates the world. Our Heimdall guards the Bifrost, having a wide color gamut, capable of displaying vibrant and true-to-life colors, much like the full spectrum of a rainbow.

Heimdall is everything you ever wanted in a home cinema projector... A stunning native 4K picture with full REC2020 color gamut. RGB laser with 4,500 lumens makes large screens shine. HDMI 2.1 provides the latest connectivity, perfect for gaming. Multiple lens options provide installation flexibility. And, Barco Residential can't wait to show you additional functionality coming with future firmware updates!



Heimdall

Key Features

Stunning Picture Quality

Heimdall is Barco Residential's first single chip Native 4K projector for exquisite resolution and detail. The RGB laser light engine provides 100% of the REC2020 color gamut, ensuring faithful reproduction of every color in every movie.

RGB Laser Light Engine

The brand new RGB laser light engine gives Heimdall its incredible brightness with a long lifetime of 25,000 hours, even at full power. The solid state design has no moving parts for the absolute highest reliability.

HDMI 2.1 Connectivity

HDMI 2.1 is the latest standard for connectivity. It allows frame rates up to 120Hz. This makes it an ideal match for our low latency design and is perfect for advanced gaming applications.

DynaBlack

DynaBlack provides frame by frame contrast enhancement which analyzes each frame of video. It then uses ultra-fast processing and laser pulsing to increase the overall dynamic range, making darker scenes darker and brighter scenes brighter.

Next Generation Pulse Platform

Pulse is a hardware and software based platform that simplifies the signal path, allowing it to go from source to screen much faster and more efficiently. We use an advanced image processing technique to display the image on the screen without any artifacts and with virtually no latency at speeds up to 120Hz at Native 4K resolution.

Single Step Processing (SSP™) provides geometry correction, warping, blending & more for ultimate installation flexibility.

Optics

8 different lenses are available, from ultra short to extreme long throw. This allows the Heimdall to be installed in virtually any room and in any location.



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Technical Specifications

Resolution	Native 4K: 4,096 x 2,160 pixels
Display Technology	Single Chip 4K DMD™
Housing	Sealed DMDs and Optical Assembly
Input Compatibility	Up to 4K UHD @120Hz
Light Output	4,500 lumens
Contrast	20,000:1 (with DynaBlack)
Color Gamut	REC709, DCI-P3, REC2020
Light Engine	Solid State RGB Laser
Laser Life	25,000 hours: 100% power/25°C/sea-level Up to 50,000 hours (Depending on mode of operation)
Lenses	Note: All throw ratios adjusted for 0.98" DLP device on Heimdall 0.53:1 (EN67)* 0.70-1.06:1 (EN66)* 0.83-1.14:1 (EN76)* 1.06-1.50:1 (EN63)* 1.1-1.6:1 (EN83) 1.48-2.18:1 (EN61)* 2.19-4.05:1 (EN44)* * Requires York lens adaptor for FLDX/FLD+ lenses
Lens Shift Range	Varies depending on lens
Inputs	HDMI 2.1 (HDCP 2.3)
Control	IR, RJ45, Optional Cabled Remote
Control Drivers	Control4, Crestron, Josh.ai (US), RTI and Savant
3D	Active Stereoscopic 3D
Dimensions (WxLxH)	472 x 562 x 286 mm / 18.6 x 22.1 x 11.3 in. (excluding lens)
Shipping Dimensions (WxLxH)	TBC
Weight	31 kg/68 lbs
Power Requirements	110 - 240 V / 50-60 Hz
Power Consumption	1103W, 705W nominal (TBC)
BTU per Hour	2,404 BTU/h typical, 3,763 BTU/h max (TBC)
Noise Level (typical at 25°C/77°F)	TBC
Operating Temperature	10 - 40°C (sea level)
Operating Humidity	20 - 80% RH
Installation	Free Rotation
Safety Requirements	TBC
Certifications	CE, FCC Class A and cCSAus
Warranty	Limited 3 years parts and labor, extendable up to 5 years

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