

# Heimdall CS

## 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 CS is everything you ever wanted in a home cinema projector... A stunning picture with full REC2020 color gamut in Cinemascope format. The bright RGB laser light engine 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 CS



THEATER SERIES

## Key Features

### Stunning Picture Quality

Barco Residential's Heimdall CS delivers 5,120 x 2,160 resolution for exquisite 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 CS 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 scene's 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.

### Cinemascope

Heimdall CS has automatic aspect ratio detection. Cinemascope content is automatically scaled to the full screen and 16:9 is shown at the correct width. Aspect ratio is also adjusted when a movie has captioning outside the active picture to make it visible. You can also switch formats manually.

## Technical Specifications

|   |  |
|---|--|
| <b>Resolution</b>                         | 5,120 x 2,160 pixels   |
| <b>Display Technology</b>                 | Single Chip 4K DMD™  |
| <b>Housing</b>                            | Sealed DMDs and Optical Assembly   |
| <b>Input Compatibility</b>                | Up to 4K UHD @120Hz  |
| <b>Light Output</b>                       | TBC  |
| <b>Contrast</b>                           | 20,000:1 (with DynaBlack)  |
| <b>Color Gamut</b>                        | REC709, DCI-P3, REC2020  |
| <b>Light Engine</b>                       | Solid State RGB Laser  |
| <b>Laser Life</b>                         | 25,000 hours: 100% power/25°C/sea-level<br>Up to 50,000 hours (Depending on mode of operation)   |
| <b>Lenses</b>                             | Note: All throw ratios adjusted for 0.98" DLP device on Heimdall<br>0.36:1 (FLDX)*<br>0.53:1 (EN67)*<br>0.70-1.06:1 (EN66)*<br>0.83-1.14:1 (EN76)*<br>1.06-1.50:1 (EN63)*<br>1.1-1.6:1 (EN83)<br>1.48-2.18:1 (EN61)*<br>2.19-4.05:1 (EN44)*<br>* Requires York lens adaptor for FLDX/FLD+ lenses |
| <b>Lens Shift Range</b>                   | Varies depending on lens   |
| <b>Inputs</b>                             | HDMI 2.1 (HDCP 2.3)  |
| <b>Control</b>                            | IR, RJ45, Optional Cabled Remote   |
| <b>Control Drivers</b>                    | Control4, Crestron, Josh.ai (US), RTI and Savant   |
| <b>3D</b>                                 | Active Stereoscopic 3D   |
| <b>Dimensions (WxLxH)</b>                 | 472 x 562 x 286 mm / 18.6 x 22.1 x 11.3 in. (excluding lens)   |
| <b>Shipping Dimensions (WxLxH)</b>        | TBC  |
| <b>Weight</b>                             | 31 kg/68 lbs   |
| <b>Power Requirements</b>                 | 110 - 240 V / 50-60 Hz   |
| <b>Power Consumption</b>                  | 1103W, 705W nominal (TBC)  |
| <b>BTU per Hour</b>                       | 2,404 BTU/h typical, 3,763 BTU/h max (TBC)   |
| <b>Noise Level (typical at 25°C/77°F)</b> | TBC  |
| <b>Operating Temperature</b>              | 10 - 40°C (sea level)  |
| <b>Operating Humidity</b>                 | 20 - 80% RH  |
| <b>Installation</b>                       | Free Rotation  |
| <b>Safety Requirements</b>                | TBC  |
| <b>Certifications</b>                     | CE, FCC Class A and cCSAus   |
| <b>Warranty</b>                           | Limited 3 years parts and labor, extendable up to 5 years  |

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