

# Loki

Unmistakably Barco Residential - precision engineering and manufacturing at its finest.



- Theater & Media Room Series
- 4K UHD Resolution (3,840 x 2,160)
- Laser Phosphor
- Up to 12,000 ANSI Lumens

Loki's alluring image quality is unmistakable, right from the very first encounter. Striking and assertive, his soul is a dual laser light engine, coupled to award-winning DLP technology and world-class optics.

#### Professional grade optics

By basing Loki's optical engine on a proven architecture, incorporating custom designed aspherical glass elements, and enhanced low dispersion glass lenses, image quality is in a class of its own. Contrast is not only increased, but the detail within the darkest parts of the image are more visible.

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#### State of the art electronics

Thanks to our unique single step processing technology (SSPTM), Pulse electronics are designed to process 4K UHD, HDMI 2.0a, HDCP 2.2 and HDR10 signals with extremely low latency.

Loki uses the very latest 0.9" DMD DLP chipset, to display flawless 4K UHD (3,840 x 2,160 px) images on screen.

#### Laser light source

Outstanding image quality requires an exceptional light source, which is why Loki uses our brand-new dual laser engine which delivers up to 12,000 ANSI lumens output.

Alongside significantly improved image uniformity, lasers last longer than traditional projector lamps, offer great image quality consistency over their lifetime, are less fragile and offer near instant on/off performance.

#### Liquid cooling

Loki has departed from a pure fan based cooling system, opting instead for a liquid cooling PID regulation system. This combined with our simulation grade warp engine allows Balder to operate at any angle (free rotation), offering new possibilities when it comes to architectural integration.

## Product specifications

## LOKI

General specifications	
Projector type	Single chip DLP
Technology	0.9" DMD™
Resolution	3,840 x 2,160 (4K UHD)
Aspect ratio	1.78:1 (16:9)
Light source	Laser phosphor
Light source lifetime	20,000 - 60,000 hours Laser intensity dependent
Light output	DCI (P3) Color Wheel: Up to 5,700 ANSI lumens T Color Wheel: Up to 8,500 ANSI lumens M Color Wheel: Up to 12,000 ANSI lumens
CLO (constant light output)	Yes
Contrast ratio	1,800:1 Sequential 450:1 ANSI
Brightness uniformity	>90%
Lens range	(R9802232) -EN68 (0.30:1) -Periscope Lens (requires vertical installation) (R9801832) -FLDX UST (0.41:1) -90°ns (R9802244) -EN67 (0.65:1) (R9802243) -EN66 (0.80 - 1.21:1) (R9802003) -EN76 (0.95 - 1.30:1) (R9802242) -EN63 (1.20 - 1.70:1) * (R9802241) -EN61 (1.70 - 2.50:1) * (R9801211) -EN44 (2.50 - 4.60:1)  * Standard Lens Option(s)
Optical lens shift	Up to 88% vertical lens shift & up to 38% horizontal lens shift (depending on lens selection)  Visit the Barco Residential Lens Calculator for further information <a href="#">Download Lens &amp; Airflow Data Here</a>
Optical dowser	Yes
Color correction	P7 RealColor™
Color gamut	DCI (P3) Color Wheel: DCI P3 T Color Wheel: REC.709 M Color Wheel: REC.709
Image processing	Embedded Warp & Blend Engine
WARP	4-Corner Warp & Bow Correction via Warp Engine
Orientation	360° Rotation
Network connection	10/100 Ethernet via RJ45 connection
Integrated web server	Yes
Diagnostics	via Prospector web interface
HDR	HDR10
3D	Active Stereoscopic 3D Additional hardware required please contact an authorized Barco representative for details
Inputs	1 x HDMI 2.0 (HDCP 2.2) 1 x HDBaseT (HDCP 1.4 -9Gbps only) 2 x Dual Link DVI-D 2 x Display Port (1.2) 12G-SDI  1 x RJ45 Ethernet 1 x RS232 1 x Remote Control (RC) 3 x USB (2 x Rear, 1 x Front) DMX (1 x Input, 1 x Output)
Input resolutions	From VGA up to 4K UHD (3,840 x 2,160) @ 60Hz or up to 2,560 x 1,600 @ 120Hz
Latency	TBD
Control	IR, RS232, IP, 12v Trigger Driver modules available for: Crestron, Control4, RTI & Savant  NOTE: 12v Trigger(s) do not follow standard functionality and require an IP command to enable / disable them. <a href="#">Download our integration guide for more information.</a>
Power requirements	100 -240V / 50 -60Hz US Requires: 20A Service (NEMA 5-20P Plug Type)
Power consumption	2180 W -Maximum
BTU per hour	Max. 6,000 BTU/h
Standby power	Standby ECO Mode: 110v -0.78W (with LAN Connection) 230v -0.87W (with LAN Connection)
Noise level (typical at 25°C/77°F)	38 dB(A)
Operating temperature	10 to 45 °C at Sea Level Optimal Set Point: 20 °C
Operational humidity	20 to 80% (relative humidity)

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<b>Airflow requirements</b>	Air Inlet (from Rear w/Feet Down): Right Side Exhaust (from Rear w/Feet Down): Rear  Clearance Requirements: Front: 1cm Left: 1cm Right: 50cm Rear: 100cm Top: 1cm
<b>Exhaust airflow</b>	193 ft <sup>3</sup> /min @ 25 °C 327 m <sup>3</sup> /hour @ 25 °C <a href="#">Download Lens &amp; Airflow Data Here</a>
<b>Dimensions (WxLxH)</b>	Excluding Lens 577 x 738 x 304 mm 22.7 x 29.1 x 12 in.
<b>Weight</b>	Excluding Lens 44.5 kg / 98.1 lbs
<b>Shipping dimensions (WxLxH)</b>	Excluding Lens 720 x 910 x 630 mm 28.4 x 35.8 x 24.8 in.
<b>Shipping weight</b>	Excluding Lens 55 kg / 121.3 lbs
<b>Standard accessories</b>	Power Cord, Remote Control
<b>Certifications</b>	CE, FCC Class A and cCSAus
<b>Safety requirements</b>	This projector is Risk Group 2 (RG2) according to IEC EN 62471-5.  This projector may become Risk Group 3 (RG3) when an interchangeable lens with throw ratio greater than 3.15 is installed.  For Northern America, installation requirements according to Risk group 3 (RG3) must be followed when interchangeable lens with throw ratio greater than 2.33 is installed.  Refer to the installation manual for further information.
<b>24/7 operation</b>	This projector is designed and warranted for heavy duty 24/7 operation. Specific measures and design considerations have been made in order for it to comply with stringent requirements in challenging applications.
<b>Warranty</b>	Limited 3 years parts and labor Extendable up to 5 years
<b>*</b>	Firmware upgradable Please contact an authorized Barco representative for details

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