

Balder

A divine force, bringing beauty and life to the most refined home cinema and media rooms.



- **Theater & Media Room Series**
- **4K UHD Resolution (3,840 x 2,160)**
- **Laser Phosphor**
- **Up to 7,000 ANSI Lumens**

Manufactured to perfection in Belgium, Balder is built from the highest quality materials including aluminium, magnesium and glass. Balder not only shares the same Ultra HD and HDR compatible Pulse electronics as Loki, the optical design and single laser engine are also taken from the Loki platform.

Professional grade optics

By basing Balder's optical engine on its bigger brother Loki's architecture, which features custom designed aspherical glass elements and enhanced low dispersion glass lenses, image quality is in a class of its own.

Topping that, Balder's chassis and core are built from aluminium and magnesium, which offer exceptional robustness, resulting in the best picture quality ever shown at this level.

State of the art electronics

Our "Pulse" electronics are built on a superior FPGA platform, featuring a dual core processor on the industry's only 20 nm SoC, with 96 transceiver lanes delivering 3.3 Tbps of serial bandwidth.

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. This provides exceptional gaming and movie viewing experiences.

Laser light source

Outstanding image quality requires an exceptional light source, which is why Balder uses our brand-new laser engine which delivers up to 7,000 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

Balder 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**BALDER****General specifications**

Projector type	Single chip DLP
Light source lifetime	20,000 - 60,000 hours Laser intensity dependent
CLO (constant light output)	Yes
Optical dowser	Yes
Technology	0.9" DMD™
Integrated web server	Yes
Resolution	5,120 x 2,160 (4K UHD)
Diagnostics	via Prospector web interface
Aspect ratio	1.78:1 (16:9)
Light source	Laser phosphor
Light output	DCI (P3) Color Wheel: Up to 4,000 ANSI lumens T Color Wheel: Up to 5,000 ANSI lumens M Color Wheel: Up to 7,000 ANSI lumens
Contrast ratio	1,800:1 Sequential 450:1 ANSI
Brightness uniformity	>90%
Input resolutions	From VGA up to 4K UHD (3,840 x 2,160) @ 60Hz or up to 2,560 x 1,600 @ 120Hz
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)
Latency	TBD
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 Download Lens & Airflow Data Here
Color correction	P7 RealColor™
Standby power	Standby ECO Mode: 110v -0.73W (with LAN Connection) 230v -0.82W (with LAN Connection)
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
Operational humidity	20 to 80% (relative humidity)
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)
Shipping Dimensions	Excluding Lens 730 x 600 x 480 mm 28.7 x 23.7 x 18.9 in.
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. Download our integration guide for more information.

Product specifications**BALDER**

Shipping weight	Excluding Lens 43 kg / 94.8 lbs
Power requirements	100 -240V / 50 -60Hz
Standard accessories	Power Cord, Remote Control
Certifications	CE, FCC Class A and cCSAus
Power consumption	1,100 W -Max.
Noise level (typical at 25°C/77°F)	36 dB(A)
24/7 operation	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.
Operating temperature	10 to 45 °C at Sea Level Optimal Set Point: 20 °C
Operating humidity	20 to 80% relative humidity
*	Firmware upgradable Please contact an authorized Barco representative for details
BTU per hour	4,000 BTU/h -Max.
Airflow requirements	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
Exhaust airflow	112 ft ³ /min @ 25 °C 190 m ³ /hour @ 25 °C Download Lens & Airflow Data Here
Dimensions (WxLxH)	Excluding Lens 475 x 588 x 286 mm 18.7 x 23.1 x 11.3 in.
Weight	Excluding Lens 37 kg / 81.5 lbs
Warranty	Limited 3 years parts and labor Extendable up to 5 years
Safety requirements	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 4.7 is installed. For northern America, installation requirements according to Risk group 3 (RG3) must be followed when interchangeable lens with throw ratio greater than 2.5 is installed. Refer to the installation manual for further information.

Last updated: 21 May 2026

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