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 it's 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 SoChave, 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 consistence 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.

技术规格	BALDER
一般规格	
投影机类型	Single chip DLP
光源寿命	20,000 - 60,000 hours Laser intensity dependent
CLO（恒定光输出）	Yes
光学关闸	Yes
技术	0.9" DMD™
集成 Web 服务器	Yes
分辨率	5,120 x 2,160 (4K UHD)
诊断	via Prospector web interface
纵横比	1.78:1 (16:9)
光源	Laser phosphor
光输出	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
对比度	1,800:1 Sequential 450:1 ANSI
亮度均匀度	>90%
输入分辨率	From VGA up to 4K UHD (3,840 x 2,160) @ 60Hz or up to 2,560 x 1,600 @ 120Hz
镜头系列	(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)
延迟	TBD
光学镜头移位	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
色彩校正	P7 RealColor™
待机功率	Standby ECO Mode: 110v -0.73W (with LAN Connection) 230v -0.82W (with LAN Connection)
色域	DCI (P3) Color Wheel: DCI P3 T Color Wheel: REC.709 M Color Wheel: REC.709
图像处理	Embedded Warp & Blend Engine
WARP	4-Corner Warp & Bow Correction via Warp Engine
安装角度	360° Rotation
网络连接	10/100 Ethernet via RJ45 connection
运行湿度	20 to 80% (relative humidity)
HDR	HDR10
3D	Active Stereoscopic 3D Additional hardware required please contact an authorized Barco representative for details
输入	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)

技术规格	BALDER
装箱尺寸	Excluding Lens 730 x 600 x 480 mm 28.7 x 23.7 x 18.9 in.
控制	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.
运输重量	Excluding Lens 43 kg / 94.8 lbs
电源要求	100 -240V / 50 -60Hz
标准配件	Power Cord, Remote Control
认证	CE, FCC Class A and cCSAus
功耗	1,100 W -Max.
噪音水平（25°C/77°F 时的典型值）	36 dB(A)
全天候运行	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.
运行温度	10 to 45 °C at Sea Level Optimal Set Point: 20 °C
工作湿度	20 to 80% relative humidity
*	Firmware upgradable Please contact an authorized Barco representative for details
每小时 BTU	4,000 BTU/h -Max.
气流要求	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
排气流量	112 ft^3/min @ 25 °C 190 m^3/hour @ 25 °C Download Lens & Airflow Data Here
尺寸（宽 x 长 x 高）	Excluding Lens 475 x 588 x 286 mm 18.7 x 23.1 x 11.3 in.
重量	Excluding Lens 37 kg / 81.5 lbs
保修政策	Limited 3 years parts and labor Extendable up to 5 years
安全要求	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.

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