

# 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 features the finest components such as aluminum and glass. Balder not only shares the same Ultra HD and HDR compatible electronics with the higher-end Loki models, the optical design and new 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, custom designed aspherical glass elements and enhanced low dispersion glass lenses, image quality is in a class of its own. To top that, Balder is built in aluminium, 37kg of pure quality. The result is the best picture quality ever shown at this level.

#### State of the art electronics

All new "Platinum" electronics have been designed to process 4K with HDMI 2.0a and HDCP 2.2, while the optical engine utilises the very latest 0.9" DMD DLP chipset, delivering 3,840 x 2,160 pixels on screen.

Balder also features HDR10, motorised lenses and a function to swap between 16:9 and cinemascope. Featuring Barco's unique RealColor processing, Balder enables simple and accurate calibration to any desired white point or greyscale.

#### Laser light source

Outstanding image quality also requires an exceptional light source. Which is why we have packed Balder with a brand new laser engine. Alongside significantly improved image uniformity, lasers last longer than traditional projector lamps, are not as fragile and offer nearly instant on/off. Light output is up to 7,000 ANSI lumens.

#### Liquid cooling

Balder has departed from a pure fan based cooling system to a liquid cooling PID regulation system, allowing Balder to operate in any angle.

**PRODUCT SPECIFICATIONS****BALDER**

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 (depending on brightness mode)
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
CLO (constant light output)	Yes
Contrast ratio	1,800:1 Sequential 450:1 ANSI
Brightness uniformity	90%
Lens range	EN68 (0.30:1) -Periscope Lens FLDX UST (0.41:1) -90 Degree Lens EN67 (0.65:1) EN66 (0.80 - 1.21:1) EN63 (1.20 - 1.70:1) EN61 (1.70 - 2.50:1) EN44 (2.50 - 4.60:1)
Optical lens shift	Up to 88% vertical lens shift & up to 38% horizontal lens shift (depending on lens selection) Motorized zoom, focus, iris, shutter and 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 dower	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, bow correction & blend engine
WARP	Four corner warp
Orientation	360° rotation, no restrictions
Network connection	10/100 Ethernet via RJ45 connection
Integrated web server	Yes
HDR	HDR10
3D	Active stereoscopic 3D* (requires firmware release 1.5 onwards) Additional hardware required please contact an authorized Barco representative for details
Inputs	1 x HDMI 2.0a (HDCP 2.2), 1 x HDBaseT (HDCP 1.4), 2 x dual link DVI-D, 2 x Display Port, HDSDI 1 x RJ45 Ethernet, RS232, 3 x USB, DMX in/out*
Input resolutions	VGA up to 4K UHD (3,840 x 2,160) @ 60Hz Up to 2,560 x 1,600 @ 120Hz
Latency	
Control	IR, RS232, TCP/IP, 3 x 12v Trigger* (requires firmware release 1.6 onwards) Driver modules available for: Crestron, Control4 and Savant
Power requirements	100 -240V / 50 -60Hz
Power consumption	743 W -Nominal 1,100 W -Max.

**PRODUCT SPECIFICATIONS****BALDER**

BTU per hour	2,535 BTU/h -Nominal 4,000 BTU/h -Max.
Standby power	Standby ECO Mode: 110v -0.73W (with LAN Connection) 230v -0.82W (with LAN Connection)
Noise level (typical at 25°C/77°F)	36 dBA rel. 20uPa @ 1 meter
Operating temperature	10 to 45 °C -Sea Level 20 °C -Optimal Set Point
Operational humidity	20 to 80% (relative humidity)
Airflow requirements	Air Inlet (from Rear w/Feet Down): Right Side Exhaust (from Rear w/Feet Down): Rear Clearance Distances (Front / Left / Right / Rear): 1cm / 1cm / 50cm / 100cm
Exhaust airflow	112 ft <sup>3</sup> /min or 3,171 L/min @ 25 °C  <a href="#">Download Lens &amp; Airflow Data Here</a>
Dimensions (WxLxH)	475 x 588 x 286 mm (including feet / excluding lens) 18.7 x 23.1 x 11.3 in. (including feet / excluding lens)
Weight	37 kg / 81.5 lbs (excluding lens)
Shipping Dimensions	730 x 600 x 480 mm (excluding lens - packaged separately) 28.7 x 23.7 x 18.9 in. (excluding lens - packaged separately)
Shipping weight	43 kg / 94.8 lbs (excluding lens - packaged separately)
Storage temperature	-20 to 60 °C
Storage humidity	10 to 90% (relative humidity)
Standard accessories	Power cord(s), wireless remote control
Certifications	CE, FCC Class A and cCSAus
Warranty	Limited 3 years parts and labor Extendable up to 5 years
*	Firmware upgradable Please contact an authorized Barco representative for details

Last updated: 15 Oct 2020

Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.