

Balder

Theater & Media Room Series



A divine force, Barco Balder brings beauty and life to the most refined home cinema and media rooms. Manufactured to perfection in Norway, Balder is forged from the finest components such as aluminium and glass. Balder not only shares the same Ultra HD and HDR 10 compatible electronics as his big brother Loki, the optical design and new single laser engine are also derived from the Loki platform.



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Key features

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 "Pulse" electronics have been designed to process 4K with HDMI 2.0a and HDCP 2.2 and the optical engine is utilising the very latest 0,9-inch DMD DLP chipset, delivering 3,840 x 2,160 pixels on screen.

Balder also features HDR 10, motorised lenses and a function to swap between 16:9 and cinemascope. Featuring Barco's unique RealColour 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 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.

Technical specifications

Resolution	3,840 x 2,160 px @ 60Hz
Display technology	Single chip 4K XPR DMD™
Housing	Sealed DMDs and optical assembly
Input compatibility	up to 4K UHD
Light output	T-version: up to 5,500 lumens M-version: up to 7,100 lumens
Contrast	490 : 1 ANSI Contrast
Light Engine	Laser phosphor
Laser Life	100% 20.000 hours -> 50% Brightness 75% 60.000 hours -> 50% Brightness
Lenses	0.30 : 1 (EN58) 0.61 : 1 (EN47) 0.8 : 1 (EN 42) 0.75 - 1.13 : 1 (EN46) 1.2 - 1.7:1 (EN 43) 1.7 - 2.5 : 1 (EN41) 2.5 - 4.6 : 1 (EN 44)
Lens shift range	Varies depending on lens, up to 144% with EN41 & EN43
Inputs	2x DP, 2x dual link DVI, HDBaseT, HDMI 2.0
Control	RJ 45 Ethernet, DMX in/out, RS232 in, 2x USB, 12v out
3D	active stereoscopic 3D Sync 3-pin DIN, BNC (SW upgrade Q4 2018)
Dimensions	475 x 593 x 286 mm / 18,7 x 23,3 x 11,2 in
Shipping Dimensions	TBD
Weight	37 kg / 81,5 lbs
Power requirements	110 - 240 V / 50-60 Hz
Power consumption	1,100 W Max
BTU per Hour	Max 4,000 BTU/h max
Noise level (typical at 25°C/77°F)	36 dB(A) (max)
Operating temperature	10 - 40°C (sea level)
Operating humidity	20 - 80% RH
Installation	free rotation
Certifications	CE, FCC Class A and cCSAus

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