Balder

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

EASY INSTALL	12 BIT	LIGHT-ON-DEMAND	3D READY
WARPING	LASER PHOSPHOR	4K UHD	1 CHIP DLP

- **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, HDMITM 2.0a, HDCP 2.
2 and HDR10 signals with extremely low latency.
 This provides exceptional gaming and movie viewing experiences.

BARCO

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 a
t any angle (free rotation),
 offering new possibilities when it comes to architectural integration.

기술 사양	BALDER
일반 사양	
프로젝터 유형	Single chip DLP
기술	0.9" DMD™
해상도	3,840 x 2,160 (4K UHD)
화면 비율	1.78:1 (16:9)
광원	Laser phosphor
광원 수명	20,000 - 60,000 hours Laser intensity dependent
광 출력	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
명암비율	1,800:1 Sequential 450:1 ANSI
밝기 균일도	>90%
렌즈 범위	(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)
광학 렌즈범위	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
옵티컬 다우저	Yes
색 보정	P7 RealColor™
색 영역	DCI (P3) Color Wheel: DCI P3 T Color Wheel: REC.709 M Color Wheel: REC.709
영상 처리	Embedded Warp & Blend Engine
WARP	4-Corner Warp & Bow Correction via Warp Engine

기술 사양	BALDER
방향	360° Rotation
네트워크 연결	10/100 Ethernet via RJ45 connection
통합 웹 서버	Yes
진단	via Prospector web interface
HDR	HDR10
3D	Active Stereoscopic 3D Additional hardware required please contact an authorized Barco representative for details
입력	1 x HDMI^{TM} 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)
입력 해상도	From VGA up to 4K UHD (3,840 x 2,160) @ 60Hz or up to 2,560 x 1,600 @ 120Hz
지연	TBD
컨트롤	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.
전원 요구 사항	100 -240V / 50 -60Hz
전력 소비	1,100 W -Max.
시간당 **BTU**	4,000 BTU/h -Max.
대기 전력	Standby ECO Mode: 110v -0.73W (with LAN Connection) 230v -0.82W (with LAN Connection)
소음 수준 (25°C/77°F에서 일반적인 값)	36 dB(A)
작동 온도	10 to 45 °C at Sea Level Optimal Set Point: 20 °C
작동 습도	20 to 80% (relative humidity)

기술 사양	BALDER
기류 요구 사항	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
배기량	112 ft^3/min @ 25 ℃ 190 m^3/hour @ 25 ℃ Download Lens & Airflow Data Here
크기(WxLxH)	Excluding Lens 475 x 588 x 286 mm 18.7 x 23.1 x 11.3 in.
무게	Excluding Lens 37 kg / 81.5 lbs
물품 크기	Excluding Lens 730 x 600 x 480 mm 28.7 x 23.7 x 18.9 in.
적재중량	Excluding Lens 43 kg / 94.8 lbs
표준 액세서리	Power Cord, Remote Control
인증	CE, FCC Class A and cCSAus
안전 요구 사항	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.
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.
보증	Limited 3 years parts and labor Extendable up to 5 years
*	Firmware upgradable Please contact an authorized Barco representative for details