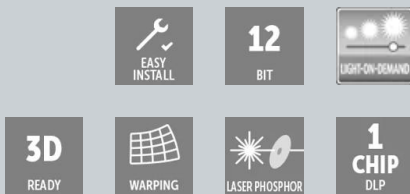# Balder CinemaScope

The cornerstone of home cinema systems designed to deliver outstanding experiences in the world's finest homes.

- **Theater & Media Room Series**

- **5K UHD Resolution (5, 120 x 2,160)**

- **Laser Phosphor**

- **Up to 5,600 ANSI Lumens**

Professional grade optics

By basing Balder Cinemascope's optical engine on its bigger brother Loki's Cinemascope's architecture, incorporating 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.

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State of the art electronics

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.

Balder CinemaScope uses the very latest 0.9" DMD DLP chipset, to display flawless 5K UHD (5,120 × 2,160 px), 2.37:1 aspect ratio images on screen.

CinemaScope

Our unique aspect ratio detection system, automatically crops and scales content to fit the appropriate screen area, ranging from 1.78:1 to 2.39:1.

Manual cropping is also available for custom configurations such as

cinemascope subtitle support, where only the top black bar is removed from none 1.78:1 content, preserving the subtitles at the foot of the image.

Liquid cooling

Balder hasdeparted from a pure fan based cooling system, opting instead for a liquidcooling PID regulation system. Thiscombined with our simulation grade warp engine allows Balder to operate at any angle(free rotation), offering new possibilities when it comes to architecturalintegration.

Product specifications   BALDER CINEMASCOPE

General specifications	
Projector type	Single chip DLP
Technology	0.9" DMD™
Resolution	5,120 x 2,160 (5K UHD)
Aspect ratio	2.37:1 (CinemaScope)
Light source	Laser phosphor
Light source lifetime	20,000 - 60,000 hours Laser intensity dependent
Light output	DCI (P3) Color Wheel: Up to 3,600 ANSI lumens T Color Wheel: Up to 4,000 ANSI lumens M Color Wheel: Up to 5,600 ANSI lumens
CLO (constant light output)	Yes
Contrast ratio	1,800:1 Sequential 450:1 ANSI
Brightness uniformity	>90%
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)
Optical lens shift	Up to 122% vertical lens shift & up to 40% horizontal lens shift (depending on lens selection) Visit the Barco Residential Lens Calculator for further information Download Lens & Airflow Data Here
Optical dowser	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 & Blend Engine
WARP	4-Corner Warp & Bow Correction via Warp Engine
Orientation	360° Rotation
Network connection	10/100 Ethernet via RJ45 connection
Integrated web server	Yes
Diagnostics	via Prospector web interface
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)
Input resolutions	From VGA up to 4K UHD (3,840 x 2,160) @ 60Hz or up to 2,560 x 1,600 @ 120Hz
Latency	TBD
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.
Power requirements	100 -240V / 50 -60Hz
Power consumption	1,100 W -Max.
Standby power	Standby ECO Mode: 110v -0.73W (with LAN Connection) 230v -0.82W (with LAN Connection)
BTU per hour	4,000 BTU/h -Max.
Noise level (typical at 25°C/77°F)	36 dB(A)
Operating temperature	10 to 45 °C at Sea Level Optimal Set Point: 20 °C
Operational humidity	20 to 80% (relative humidity)

Product specifications	BALDER CINEMASCOPE
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
Shipping Dimensions	Excluding Lens 730 x 600 x 480 mm 28.7 x 23.7 x 18.9 in.
Shipping weight	Excluding Lens 43 kg / 94.8 lbs
Standard accessories	Power Cord, Remote Control
Certifications	CE, FCC Class A and cCSAus
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 6.0 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.
Warranty	Limited 3 years parts and labor Extendable up to 5 years
*	Firmware upgradable Please contact an authorized Barco representative for details

Last updated: 26 Jun 2023

ENABLING BRIGHT OUTCOMES

BARCO