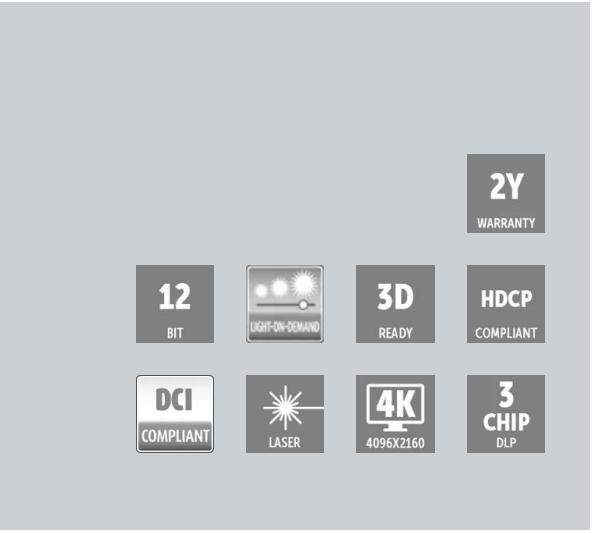
Thor

The hammerwielding god of lightning, brings direct laser projection to the most exclusive homes for the first time.



- **Cinema at Home Series**
- **Native 4K Resolution (4, 096 x 2,160)**
- **6P RGB Laser**
- **Up to 15,000 ANSI Lumens**

The Thor platform represents the pinnacle of Barco Residential's projection portfolio.

Thor's perfectly designed, 6P RGB laser technology, 15,000 lumen output and hermetically sealed 4K DLP® engine, delivers reality altering levels of immersion for the largest home theatres.

Worlds first

Thor (and Thor+) are the world's only integrated laser 6P 4K 3D projection solutions for Cinema at Home. In order to reliably achieve long lifetime at brightness levels twice that of xenon projectors, a sophisticated control system actively cools both laser modules and the DMD engine, providing a predictable 30,000 hour lifetime with at least 80% of the initial brightness.

Laser Speckle

Thanks to Barco's industry-leading technology to minimize laser speckle, Thor is able to provide superior 2D and 3D images on both white and silver screens.

Color convergence mechanism

Thor also features our unique and highly acclaimed analog color convergence mechanism. By allowing the green and red DMD chips to be manually adjusted, perfect convergence can be achieved. This attention to detail renders images sharper and more immersive than ever before.

Hand Built

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Not every projector can claim to be handbuilt, Thor can. Even though we are using state-of-the-art technologies for most processes – such as measuring, calibrating, assembling our electronics, and manufacturing the delicate optics and mechanics – every single step of the process is overseen by specifically trained professionals. Moreover, the assembly of vital parts is performed by hand, guaranteeing ultimate quality at all stages of manufacture.

Product specifications	THOR
General specifications	
Projector type	Three chip DLP
Technology	3 x 1.38" DMD™
Resolution	4,096 x 2,160 (4K)
Aspect ratio	1.89:1
Light source	6P RGB Laser
Light source lifetime	30,000 Hours or more Replaceable illumination
Light output	Up to 15,000 ANSI lumens
CLO (constant light output)	Yes
Contrast ratio	6,000:1 Sequential 1,000:1 ANSI w/High Contrast Lens
Brightness uniformity	80% at sides 75% at corners
Lens range	(R98013983) -4K-VHC HDR (1.13 - 1.72:1) * (R98013333) -4K-VHC HDR (1.35 - 1.84:1) * (R98013343) -4K-VHC HDR (1.45 - 2.10:1) * (R98013533) -4K-VHC HDR (1.65 - 2.70:1) * (R98013543) -4K-VHC HDR (1.98 - 3.40:1) * (R98562942) -DC4K HC (1.35 - 1.86:1) (R98562972) -DC4K HC (1.46 - 2.10:1) (R98563002) -DC4K HC (1.65 - 2.60:1) (R98563032) -DC4K HC (2.00 - 3.35:1) * Standard Lens Option(s)
Optical lens shift	Up to 25% vertical lens shift & up to 15% horizontal lens shift Motorized zoom, focus, shutter and lens shift Download Lens Data Here
Tilt	20° Forwards 5° Backwards
Optical dowser	Yes
Color correction	P7
Color gamut	REC2020
Image processing	Alchemy - Integrated Cinema Media Processor (ICMP)
WARP	N/A
Orientation	Pedestal / Table Top
Network connection	10/100 Ethernet via RJ45 connection
Software tools	Barco Communicator
Integrated web server	No
HDR	HDR10
3D	Color3D (Barco Laser3D): Native 6-primary color-3D system. Only requires color filter glasses (Dolby3D glasses cannot be reused) Active glasses systems Polarization recuperation systems
Inputs	Barco Alchemy ICMP included in the projector: 2 x HDMI2.0a (up to 4K 2D 60fps) 2 x 3G-SDI inputs 16 x AES/EBU audio channels (2 x RJ45) 8 x GPI, 8x GPO (4 x RJ45) 2 x Gbe for content connectivity & ingest 2 x front-accessible USB 3.0 for fast ingest 2 x front-accessible USB 2.0 DCI 4K 2D up to 60fps* DCI 4K 3D (24 or 30fps per eye)* DCI High Frame Rates 2K 3D up to 120fps (60fps per eye) JPEG 2000 bit-rates up to 625 Mbps MPEG-2 (4:2:0 and 4:2:2 up to 60fps)
Input resolutions	VGA up to 4K (4,096 x 2,160) @ 120Hz
DCI	DCI Compliant
Integrated storage	3.9TB effective storage (RAID-5) via 3 x 2TB Hot-swappable 2.5" hard-drives
Control	RS232, TCP/IP, 8 x GPIO

Product specifications	THOR
Power requirements	Projector: Y connection: 200-240V / 346-415V 50-60Hz 16A 3W+N+PE Power cord size range: 4 sq mm to 6 sq mm, 10AWG to 8AWG Circuit breaker range: 25A to 40A Delta connection: 200-240V 3W+PE 28A 50-60Hz Power cord size: 6 sq mm, 8AWG Circuit breaker: 40A Chiller: Y connection: 230/400V 3W+N+PE 16A, 2.5 sq mm Delta connection: 208V / 3W+PE Max. 16A per phase
Power consumption	Projector (Full Laser Power): 3.5 kW (2D or Polarization 3D) 2.0 kW (Barco Laser3D - 6P) Chiller (Full Laser Power): 2.0 kW (2D or Polarization 3D) 1.6 kW (Barco Laser3D - 6P)
Noise level (typical at 25°C/77°F)	Projector (w/Chiller): 68 dB(A) - Max Projector (w/o Chiller): 52db(A)
Operating temperature	10 to 30 °C Max. (sea Level)
Operational humidity	75% Max. (projector and chiller)
BTU per hour	18,500 BTU/h
Airflow requirements	Air Inlet (from Rear w/Feet Down): TBC Exhaust (from Rear w/Feet Down): TBC
Exhaust airflow	TDB
Dimensions (WxLxH)	Projector: 742 x 1,446* x 706 mm (includes feet / excludes lens) 29.2 x 56.9 x 27.8 in. (includes feet / excludes lens) Chiller: 701 x 701 x 800 mm 27.6 x 27.6 x 31.5 in. * Excludes allowance for chiller hoses
Weight	Projector: 200 kg / ~440 lbs (excludes lens) Chiller: ~115 kg / ~250 lbs
Shipping Dimensions	1,780 x 1,320 x 1,020 mm excludes lens - packaged separately) 70.1 x 52.0 x 40.2 in. (excludes lens - packaged separately)
Shipping weight	307 kg / 677 lbs (excludes lens - packaged separately)
Certifications	CE; ETL/UL/FCC, CCC
Warranty	Limited 3 years parts and labor Extendable up to 5 years
Safety requirements	Class 1, Risk Group 3
*	Firmware upgradable Please contact an authorized Barco representative for details

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