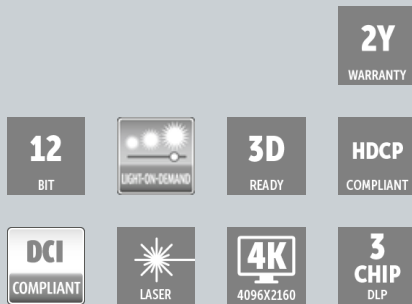


# Thor+

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 32,000 ANSI Lumens

The Thor platform represents the pinnacle of Barco Residential's projection portfolio. Thor, the hammerwielding god of lightning, brings true, direct laser projection to the most exclusive homes for the first time. The perfectly designed 32,000-lumen output, hermetically sealed 4K DLP® engine delivers reality altering levels of immersion for the largest home cinemas.

### World's most powerful residential projector

Thor+ is the world's most powerful residential projector ever with integrated laser 6P RGB laser, 4K 3D projection solution for Cinema at Home. It can project 40 foot lambert on a 30 meter / 98 feet width a 16:9 screen. 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

Not every projector can claim to be hand-built, 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 step of the process is overseen by specifically trained professionals. Moreover, the assembly of vital parts is performed by hand. To guarantee ultimate quality at all stages of manufacture, our projectors do not travel down an automated production line.

PRODUCT SPECIFICATIONS	THOR+
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 32,000 ANSI lumens
CLO (constant light output)	Yes
Contrast ratio	6,000:1 Sequential 1,100:1 ANSI w/High Contrast Lens
Brightness uniformity	80% at sides 75% at corners
Lens range	4K-VHC LNS (1.13 - 1.72:1) 4K-VHC LNS (1.35 - 1.86:1) 4K-VHC LNS (1.46 - 2.10:1) 4K-VHC LNS (1.65 - 2.60:1) 4K-VHC LNS (2.00 - 3.35:1)  DC4K HC (1.35 - 1.86:1) DC4K HC (1.46 - 2.10:1) DC4K HC (1.65 - 2.60:1) DC4K HC (2.00 - 3.35:1)
Optical lens shift	Up to 25% vertical lens shift & up to 15% horizontal lens shift Motorized zoom, focus, shutter and lens shift <a href="#">Download Lens Data Here</a>
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, 8 x 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
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
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  Chillers (each): Y connection: 230/400V 3W+N+PE 16A 2.5 sq mm Delta connection: 208V / 3W+PE Max. 16A per phase

**PRODUCT SPECIFICATIONS****THOR+**

Power consumption	Projector (Full Laser Power): 6.7 kW (2D or Polarization 3D) 3.6 kW (Barco Laser3D - 6P)  Chillers (each) (Full Laser Power): 3.0 kW (2D or Polarization 3D) 2.5 kW (Barco Laser3D - 6P)
Noise level (typical at 25°C/77°F)	Projector (w/Chillers): 77dB(A) - Max fan speed (start up phase) 57dB(A) - Stable state  Projector (w/o Chillers): 52db(A)
Operating temperature	10 to 30 °C Max. (sea Level)
Operational humidity	75% Max. (projector and chillers)
BTU per hour	32,150 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) * Excludes allowance for chiller hoses  2 x Chillers (each): 701 x 701 x 800 mm 27.6 x 27.6 x 31.5 in.
Weight	Projector: 235 kg / ~520lbs (excludes lens) 2 x Chillers (each): ~115 kg / ~250 lbs
Shipping Dimensions	TBC (excludes lens - packaged separately)
Shipping weight	TBC (excludes lens - packaged separately)
Storage temperature	TBC
Storage humidity	TBC
Standard accessories	TBC
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

**Last updated: 29 Sep 2020**Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.