

Thor

Cinema at home Series



The Barco 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 15,000-lumen output, hermetically sealed 4K DLP® engine delivers reality altering levels of immersion for the largest home cinemas.



Thor



Key features

World's first

Thor is the world's first and only integrated laser 6P RGB laser, 4K 3D projection solution 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

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. This guarantees ultimate quality at all stages of manufacture, Barco projectors do not travel down an automated production line.

Technical specifications

Resolution	4K (4,096 x 2,160 px @ 60hz)
Display technology	DLP - 1.38" three chip DMD™
Housing	Sealed DMDs and optical assembly
Input compatibility	up to 4K (4,096 x 2,160)
Light output	Up to 15,000 ANSI lumens
Contrast	1,000 : 1 ANSI Contrast (w/WHC Lens) / 6,000 : 1 On/Off contrast
Light engine	6P RGB Laser
Light source life time	30,000 hours or more, replaceable illumination
Lenses	1.13 - 1.72 : 1 4K-VHC LNS 1.35 - 1.86 : 1 4K-VHC LNS or DC4K HC 1.46 - 2.10 : 1 4K-VHC LNS or DC4K HC 1.65 - 2.60 : 1 4K-VHC LNS or DC4K HC 2.00 - 3.35 : 1 4K-VHC LNS or DC4K HC
Lens shift range	Up to 25% Vertical and 15% Horizontal
Inputs	Barco Alchemy ICMP included in the projector: 2x HDMI2.0a (up to 4K 2D 60fps) JPEG2000 2K & 4K DCI play-out High Frame Rates 3D up to 120fps (60fps per eye) 2x 3G-SDI inputs 16x AES/EBU audio channels (2x RJ45)
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
Control	TCP/IP, 8 x GPIO, RS232
Dimensions	Projector: 744 x 1,446* x 706 mm / 29.3 x 56.9 x 27.8 inches (with feet, no lens) Chiller with the following dimensions: 701 x 701 x 800 mm / 27.6 x 27.6 x 31.5 inches
Weight	Projector: 200kg (~440lb), Chiller: ~115kg (~250lb)
Power requirements	Projector: 200 - 240 / 346 - 415 V 50 - 60 Hz 16A 3W+N+PE (Y connection) Power cord size range: 4 sq mm to 6 sq mm, 10AWG to 8AWG Circuit breaker range: 25A to 40A Chiller: 230 / 400V 3W+N+PE 16A 2.5 sq mm (Y connection) or 208V / 3W+PE (delta connection) Max. 16A per phase
Power consumption	Projector @ full laser power: 3.5 kW (2D or Polarization D) / 2.0 kW (Barco Laser3D - 6P) Chiller @ full laser power: 2.0 kW (2D or Polarization 3D) / 1.6 kW (Barco Laser3D - 6P)
BTU per hour	18,500 BTU/U
Noise level (typical at 25°C/77°F)	TBD
Operating temperature	30°C (86°F) Max. (projector and chillers)
Operating humidity	75% Max. (projector and chillers)
Orientation	Desktop front
Warranty	Limited 3 years parts and labor.
Certifications	CE, ETL/UL/FCC.

*excludes chiller hoses

