

Athena

Bringing DCI technology home to compact spaces that desire image perfection.



- Cinema at Home Series
- Native 2K Resolution (2,048 x 1,080)
- Dual 465W UHP Lamps
- Up to 4,800 ANSI Lumens

Barco Athena brings DCI technology home to smaller spaces. As the projection goddess of reason, intelligent activity, arts and literature, her compact footprint and quiet operation are especially suited to smaller dedicated home cinemas that desire image perfection and DCI compatibility.

Cinema at home

As the opening credits roll, the audience is transported to an unexpected world of superior movie realism, embraced by the ultimate image quality and immersive sound. This compelling universe is created by Barco Residential's Athena.

Compact & Rugged

The largest digital cinema projector portfolio for the residential market in the world is proud to present its latest family member; Athena. The most compact rugged DCI projector we have, whilst twice as silent as the quietest DCI projector currently on the market. Trademark Barco quality and modularity, now also for the smaller residential screens.

High-end simplicity

Athena combines media server functionalities with cinema processing electronics, that mean the complete install will have fewer boxes, leading to greater reliability and ease-of-use. The Alchemy module combines the functionalities of an Integrated Cinema Processor (ICP) and media server into one single board and forms the core of the Barco Alchemy cinema at home projectors.

Frame Rate

Frame rates beyond the 24 fps cinema standard can improve image quality, particularly on fast-moving scenes and camera pans, by reducing motion blur artifacts. This effect is even more apparent on 3D and 4K content. Higher frame rates offer filmmakers an additional creative tool.

PRODUCT SPECIFICATIONS**ATHENA**

Projector type	Three chip DLP
Technology	3 x 0.69" DMD™
Resolution	2,048 x 1,080 (2K)
Aspect ratio	1.89:1
Light source	Dual 465W UHP Lamps
Light source lifetime	TBC
Light output	Up to 4,800 ANSI lumens
CLO (constant light output)	Yes
Contrast ratio	1,500:1 Sequential 350:1 ANSI
Brightness uniformity	80% at sides 75% at corners
Lens range	DC2K (1.20 - 1.70:1) DC2K (1.34 - 1.90:1) DC2K (1.50 - 2.15:1) DC2K (1.70 - 2.55:1) DC2K (2.00 - 3.90:1) DC2K HC (1.20 - 1.70:1) DC2K HC (1.34 - 1.90:1) DC2K HC (1.50 - 2.15:1) DC2K HC (2.00 - 3.90:1)
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	15° Forwards 5° Backwards
Optical dowser	Yes
Color correction	P7
Color gamut	P3 (DCI)
Image processing	Alchemy - Integrated Cinema Media Processor (ICMP)
WARP	N/A
Orientation	Pedestal / Table Top or Ceiling Mount
Network connection	10/100 Ethernet via RJ45 connection
Software tools	Barco Communicator
Integrated web server	No
HDR	HDR10
3D	Passive Dolby system, built in (optional)

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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	200-240V, 16A
Power consumption	1.1 kW
Noise level (typical at 25°C/77°F)	dB(A) @ 1m: 48 dB(A) - Normal
Operating temperature	10 to 35 °C Max. (sea Level)
Operational humidity	20 to 80% (relative humidity)
BTU per hour	5,000 BTU/h
Airflow requirements	Air Inlet (from Rear w/Feet Down): Front Exhaust (from Rear w/Feet Down): Top (Back Through Accessories)
Exhaust airflow	140 -180 CFM (4 -5 m ³ /min)
Dimensions (WxLxH)	689 x 664 x 388 mm (including feet / excludes lens) 27.1 x 26.1 x 15.3 in. (including feet / excludes lens)
Weight	53.8 kg / 119 lbs (excludes lens)
Shipping Dimensions	TBC
Shipping weight	TBC
Storage temperature	TBC
Storage humidity	TBC
Standard accessories	TBC
Certifications	TBC
Warranty	Limited 3 years parts and labor Extendable up to 5 years
*	Firmware upgradable Please contact an authorized Barco representative for details

Last updated: 30 Jul 2020

Technical specifications are subject to change without prior notice. Please check www.barco.com for the latest information.