

Freya AE

Cinema at home Series



Freya AE Architectural Edition

Our new Freya AE projector are now available in a special Architectural Edition. The core of the projector is using our known Pulse platform, combining that with Alchemy and you get a very smart and easy to use projector. Offering breathtaking DCI compliant performance as well as an unprecedented level of architectural integration features and flexibility to create the world's most exquisite private theatres.



Freya+ AE



Freya AE

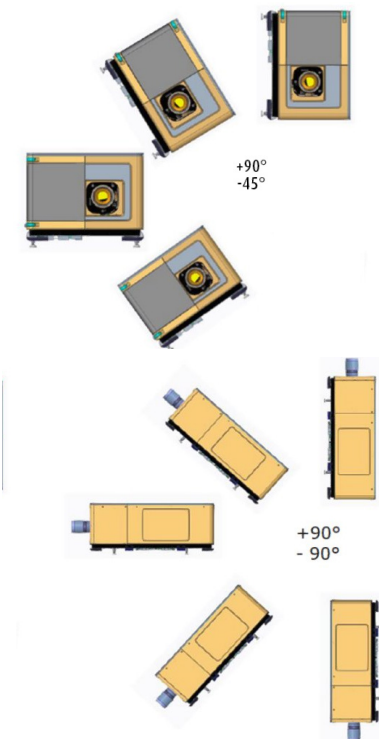


Key features

Architectural Integration

Barco Residential is at the forefront of driving these industry-wide changes, underpinned by our "Hide Everything but the Image" philosophy.

This version of Freya can be installed in different configurations. See below illustrations.



High-end simplicity

Freya combines media server functionalities with the latest in cinema processing electronics: Barco Alchemy Integrated Cinema Media Processor (ICMP) with 2 x HDMI inputs (2.0a and HDCP 2.2).

Freya offers advanced processing power combined with media server functionality, integrated playback and content management. Barco Alchemy enables showings of 4K 2D content at 60fps and 4K 3D at 30fps. Reducing the required hardware makes installation simpler and makes the system more reliable and easier to use. Freya is also the first DCI projector that is certified for risk group 2.

Technical specifications

Native resolution	4096 x 2160 px
Display technology	Native 4K cinema at home DLP® projector
Housing	integrated cooling design and patented sealed optical assembly
Image device technology	3 x 0.98" DMD
Input compatibility	up to full DCI level 4K
Light output	7500 lumens
Color Gamut	DCI P3 (98.5% of Rec.2020; when measured in xy-color coordinates)
Contrast	5,500:1 Full field / 1000:1 ANSI (with all lenses)
Light Engine	RGB Laser
Lenses	Type C lenses: TLD+ VHC short throw LENS 1.09 - 1.40 R98620053* TLD+ VHC standard throw 1.28 - 1.74:1 R98620103* Type B lenses: Zoom Lens 1.38" VHC 4K: 1.58 - 2.41 (motorized) R98565253* Zoom Lens 1.38" VHC 4K: 1.89 - 2.6 (motorized) R98565263* Zoom Lens 1.38" VHC 4K: 2.0 - 2.94 (motorized) R98565273* Zoom Lens 1.38" VHC 4K: 2.3 - 3.65 (motorized) R98565283* Zoom Lens 1.38" VHC 4K: 2.8 - 4.69 (motorized) R98565293*
Lens shift range	Up to 55% for all B lenses up and down Up to 50% for the two C lens alternatives (down) and 21% (up) (Left right) 30% for B lens alternatives and 10% for C Lenses.
Inputs	2 x HDMI2.0a (up to 4K 2D 60fps) 2 x 3G-SDI inputs 16 x AES/EBU audio channels (2x RJ45) 8 x GPI, 8x GPO (4 x RJ45) 2 x Gbe for content connectivity & ingest 2 x front-access USB 3.0 for fast ingest & 2 x front-access USB 2.0 DCI 4K 2D up to 60fps & DCI 4K 3D (24 or 30 fps per eye) DCI High Frame Rates 2K 3D up to 120fps (60fps per eye) JPEG 2000, up to 625Mbps and MPEG-2 (4:2:0 and 4:2:2 up to 60fps)
Control	Ethernet, 8x GPIO, Serial RS232
3D	Active glasses systems and polarization systems on silver screens are supported. Color separation systems are not supported.
Dimensions	Projector incl feet and frame: 976 x 1070 x 702 mm/ 38,43 x 42,13 x 27,64 inches. (976 x 1132x 702 mm/ 38,43 x 44.55x 27,64 inches with B-lensholder)
Weight	125kg / 275.5lbs
Power requirements	Single phase: 200-240 VAC, L1+N+PE, 9A, 50-60hz (Y) Three Phase: 200-240 / 346-415V, 3W+N+PE, 8A 50/60hz Three Phase: 200-240V, 3W+PE 8A 50/60hz
Power consumption	1.4kW (3W in Eco mode)
BTU per Hour	4600 BTU/h
Exhaust airflow	300 CFM
Noise level (typical at 25°C/77°F)	50dB(A) @1m and 25°C ambient temperature
Operating temperature	10 - 40°C (104F) Max. (at Sea Level)
Operating humidity	20 - 80% Relative Humidity
Installation	Desktop front
Warranty	Limited 3 years parts and labor.
Safety requirements	Risk Group 2 up to throw of 2.1(EUR) / 1.8(USA) Risk Group 3 above.

*All lens throw ratio's are +/- 5%

