

# Freya+ AE

Cinema at home Series



Freya+ AE

## Freya+ 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

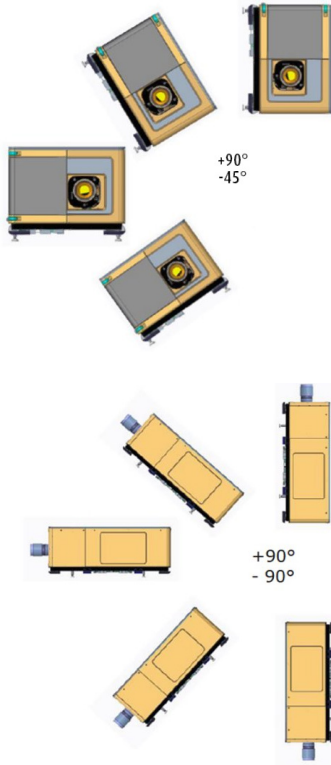


## Key features

### 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+ AE 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

<b>Native resolution</b>	4096 x 2160 px
<b>Display technology</b>	Native 4K cinema at home DLP® projector
<b>Housing</b>	integrated cooling design and patented sealed optical assembly
<b>Image device technology</b>	3 x 0.98" DMD
<b>Input compatibility</b>	up to full DCI level 4K
<b>Light output</b>	13500 lumens (To be confirmed)
<b>Color Gamut</b>	DCI P3 (98.5% of Rec.2020; when measured in xy-color coordinates)
<b>Contrast</b>	5,500:1 Full field / 1000:1 ANSI (To be confirmed)
<b>Light Engine</b>	RGB Laser
<b>Lenses</b>	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*
<b>Lens shift range</b>	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.
<b>Inputs</b>	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 & MPEG-2 (4:2:0 and 4:2:2 up to 60fps)
<b>Control</b>	Ethernet, 8x GPIO, Serial RS232
<b>3D</b>	Active glasses systems and polarization systems on silver screens are supported. Color separation systems are not supported.
<b>Dimensions</b>	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)
<b>Weight</b>	140kg/309lbs
<b>Power requirements</b>	Single phase: 200-240 VAC, L1+N+PE, 14A, 50-60hz (Y) Three Phase: 200-240 / 346-415V, 3W+N+PE, 9A 50/60hz Three Phase: 200-240V, 3W+PE 11A 50/60hz
<b>Power consumption</b>	2.4kW (3W in Eco mode)
<b>BTU per Hour</b>	7750 BTU/h
<b>Exhaust Airflow</b>	400 CFM
<b>Noise level (typical at 25°C/77°F)</b>	50dB(A) @1m and 25°C ambient temperature
<b>Operating temperature</b>	40°C / 104F Max. (at Sea Level)
<b>Operating humidity</b>	85% Max Relative Humidity
<b>Installation</b>	Desktop front,
<b>Warranty</b>	Limited 3 years parts and labor.
<b>Safety requirements</b>	Class 1 Risk Group 2 up to throw of 1.5(EUR) / 1.0(USA) Risk Group 3 above.
<b>Lifetime</b>	40,000 hours

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

