Freya

Barco Residential's Freya projector is based on Barco's highly acclaimed Series 4 platform.



- **Cinema at Home Series**
- **Native 4K Resolution (4, 096 x 2,160)**
- **RGB Laser**
- **100% REC.2020**
- **Up to 7,500 ANSI Lumens**

Freya is the wife of Odin, the most powerful god in Northern mythology and the mother of Balder. That alone should be enough to understand the power of this projector. The core of the projector uses our renowned Pulse platform which is then combined with Alchemy, creating a very smart, easy to use projector.Freya is exclusively created for high-end home theaters, with more contrast and a wider color gamut, at the level of our reference Thor projector. It features the latest in native 4K DLP® chipsets from Texas Instruments and the acclaimed Barco Alchemy ICMP (Integrated Cinema Media Processor).

Cinema at Home

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

High-end simplicity

Freya combines media server functionalities with cinema processing electronics: Barco Alchemy Integrated Cinema Media Processor (ICMP).

The Alchemy includes two HDMI™ 2.0 / HDCP 2.2 inputs for UHD Blu-Ray, games consoles and other consumer devices, supporting HDR10 video signals.

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4K at the highest level

Freya inherits much from our award winning Pulse platform, combining this with the Alchemy ICMP we have created a smart and powerful projector. A dedicated 4K (4 x 3Gb/s) input board enables playback of native 4K content, whilst Barco's renowned DCI-compliant image quality, coupled with outstanding uniformity unique RGB laser illumination.

In addition, Freya smartly manages its power consumption of only 5 lm/W and in eco-mode, it consumes less than 3 Watt. Freya can also be remotly woken up on LAN for scheduled maintenance or content ingest.

RGB laser projectors offer improved image quality and are fully compatible with popular 3D systems. Additionally, the projectors light output remains constant over time when used according to recommended practices. Barco Residential's Cinema at home models offer offer exceptional contrast, with Freya delivering 1000:1 ANSI contrast.

Product specifications	FREYA
General specifications	
Projector type	Three chip DLP
Technology	3x 0.98" DC4K
Resolution	4,096 x 2,160 (4K)
Aspect ratio	1.89:1
Light source	RGB Laser
Light output	7,500 Lumens (typical)
Contrast ratio	Up to 8,000:1 Sequential (typical) Up to 1,000:1 ANSI
Brightness uniformity	80% at Sides 75% at Corners
Lens range	Type B Lenses: (R98013983) -VHC HDR LENS: 1.58 – 2.41:1 * (R98013333) -VHC HDR LENS: 1.89 – 2.58:1 * (R98013343) -VHC HDR LENS: 2.03 – 2.94:1 * (R98013533) -VHC HDR LENS: 2.31 – 3.78:1 * (R98013543) -VHC HDR LENS: 2.77 – 4.76:1 * Type C Lenses: (R98620053) -TLD+ VHC LENS: 1.09 -1.40:1 (R98620103) -TLD+ VHC LENS: 1.28 -1.74:1 * Standard Lens Option(s)
Color gamut	DCI P3 compliant (100% of Rec.2020; when measured in xy-color coordinates)
Image processing	Barco Alchemy - Integrated Cinema Media Processor (ICMP-X)
WARP	N/A
Orientation	Pedestal / Table Top
Network connection	10/100 Ethernet via RJ45 connection
HDR	HDR10
3D	Active glasses systems and polarization systems on silver screens are supported. Color separation systems are not supported.
Inputs	Barco Alchemy ICMP-X included in the projector: 2 x HDMI™ 2.0a (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)
DCI	DCI Compliant
Integrated storage	3 x 4TB
Control	RS232, TCP/IP, 8 x GPIO
Power requirements	Single phase or triple phase 200-240V 16A
Power consumption	1.4kW (3W in Eco Mode)
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
BTU per hour	4,600 BTU/h
Airflow requirements	Air Inlet (from Rear w/Feet Down): Front / Rear / Bottom (at user input side) Exhaust (from Rear w/Feet Down): Top
Dimensions (WxLxH)	Projector incl feet: 710 x 1070 x 547 mm/ 27,95 x 42,13 x 21,54 inches (710 x 1132x 547 mm/ 27,95 x 44.55x 21,54 inches with B Lens Holder)
Weight	90 kg / 198.5 lbs
Warranty	Limited 3 years parts and labor Extendable up to 5 years
Safety requirements	Laser Class 1 -Risk Group 3

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