



WIDE ZOOM F 2.4-2.1 (F 2.4-6.0) 1.42x f=24.0-34.0mm EN43



RESIDENTIAL

BROCHURE

2024

Projection Solutions

for spectacular
home theatres.

Barco Residential brings the pinnacle of image technology to the high-end home. Our state-of-the-art products and technologies are designed, developed and manufactured in our design centers in Belgium and Norway. They are designed from the ground up with one goal in mind – to create the best possible Architectural Digital Canvases that enable the most Immersive Entertainment and Cultural Experiences for customers to share with loved ones in the world's most exquisite homes and yachts.

From purpose-built lenses and optics, to custom-made electronics processing and boards, all parts are custom crafted. Our full glass lenses, for instance, are carefully selected so that we can guarantee their glass is of the best quality.





Pulse Series

The Pulse series is tailored to be used in dedicated theatre rooms or controlled light environments. They are designed for the true cinephile who desires accurate images and consistent Rec.

The powerful and flexible architecture of Barco Pulse allows for easy installation, no scaling artefacts and full freedom in architectural integration. "Pulse" electronics have been designed to process 4K with HDMITM 2.0a and HDCP 2.2 and the optical engine is utilising the very latest in DMD DLP chipset, delivering up to 5120 x 2,160 pixels on screen.

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Medea

Just as the mythical Medea flew in a golden chariot driven by dragons, our Medea will bring fantasy to life.



- Media Room Series
- 4K UHD Resolution (3,840 x 2,160)
- Laser Phosphor
- Up to 6,500 ANSI lumens

Medea is our entry level 4K UHD projector, with up to 6,500 ANSI lumens, laser phosphor illumination and custom Barco Pulse electronics. Painstakingly designed, optimised and manufactured in our European design centers, Medea delivers unprecedented performance in small to medium sized media rooms and dedicated home cinemas.

Professional grade optics

Medea's optical engine architecture is world-class, built from custom designed aspherical glass elements and enhanced low dispersion glass lenses. The resulting image quality is simply outstanding.

State of the art "Pulse" electronics

Our "Pulse" electronics are built on a superior FPGA platform, featuring a dual core processor on the industry's only 20 nm SoC, with 96 transceiver lanes delivering 3.3 Tbps of serial bandwidth.

Thanks to our unique single step processing technology (SSPTM), Pulse electronics are designed to process 4K UHD, HDMI 2.0a, HDCP 2.2 and HDR10 signals with extremely low latency. This provides exceptional gaming and movie viewing experiences.

RealColor

Barco's RealColor processing enables simple and accurate calibration to your desired color gamut and white point.

Award winning DLP technology

Medea utilises the very latest 0.66" DMD from Texas Instruments which features a 5.4 Micron Micromirror Pitch and a ±17° Micromirror Tilt (Relative to Flat Surface). This technology allows us to display flawless 4K UHD (3,840 x 2,160 px) images.

Laser light source

Light on demand, allows you to adjust light output to match the time of day and/or content you're viewing. Medea's long laser lifetime means you can treat it like a TV, whilst still getting the big screen experience. 20,000 hours laser usage equates to 5 hours viewing every day for 11 years.

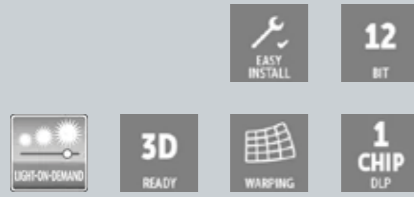
Product specifications

MEDEA

General specifications	
Projector type	Single chip DLP
Technology	0.66" DMD™
Resolution	3,840 x 2,160 (4K UHD)
Aspect ratio	1.78:1 (16:9)
Light source	Laser phosphor
Light source lifetime	40,000hrs in Long Life Mode 20,000hrs in Normal Mode 12,000hrs in Silent Mode 12,000hrs in High Brightness Mode
Light output	Up to 6,500 ANSI lumens
CLO (constant light output)	Yes
Contrast ratio	1,300:1 Sequential 350:1 ANSI
Brightness uniformity	>85%
Lens range	(R98017241) -GLD (0.80 - 1.00:1) (R98017221) -GLD (1.00 - 1.35:1) (R98017201) -GLD (1.35 - 2.00:1) * (R98017191) -GLD (1.35 - 2.00:1) -Manual Zoom & Focus ** (R98017211) -GLD (2.00 - 3.00:1) NOTE: The below lens options require an EN Series lens adapter (R9801442) (R9801832) -FLDX UST (0.54:1) -90°ns (R9802244) -EN67 (0.86:1) (R9802243) -EN66 (1.06 - 1.60:1) (R9802003) -EN76 (1.26 - 1.72:1) (R9802242) -EN63 (1.58 - 2.25:1) (R9802241) -EN61 (2.25 - 3.31:1) (R9801211) -EN44 (3.30 - 6.08:1) * Standard Lens Option(s) -USA ** Standard Lens Option(s) -Rest of World
Optical lens shift	GLD Series Lens Options Up to 60% vertical lens shift & up to 18% horizontal lens shift (depending on lens selection) EN Series Lens Options Up to 67% vertical lens shift & up to 18% horizontal lens shift (depending on lens selection) Visit the Barco Residential Lens Calculator for further information Download Lens & Airflow Data Here
Optical dowser	Yes
Color correction	P7 RealColor™
Color gamut	REC.709
Image processing	Embedded Warp & Blend Engine
WARP	4-Corner Warp & Bow Correction via Warp Engine
Orientation	360° Rotation
Network connection	10/100 Ethernet via RJ45 connection
Integrated web server	Yes
Diagnostics	via Prospector web interface
HDR	HDR10
3D	Active Stereoscopic 3D Additional hardware required please contact an authorized Barco representative for details
Inputs	1 x HDMI 2.0 (HDCP 2.2) 1 x HDBaseT (HDCP 1.4 -9Gbps only) 2 x Dual Link DVI-D 2 x Display Port (1.2) 12G-SDI 1 x RJ45 Ethernet 1 x RS232 1 x Remote Control (RC) 3 x USB (2 x Rear, 1 x Front) DMX (1 x Input, 1 x Output)
Input resolutions	From VGA up to 4K UHD (3,840 x 2,160) @ 60Hz or up to 2,560 x 1,600 @ 120Hz
Latency	TBD
Control	IR, RS232, IP, 12v Trigger Driver modules available for: Crestron, Control4, RTI & Savant NOTE: 12v Trigger(s) do not follow standard functionality and require an IP command to enable / disable them. Download our integration guide for more information.
Power requirements	100 -240V / 50 -60Hz US Requires: 20A Service (NEMA 5-20P Plug Type)
Power consumption	850 W maximum
BTU per hour	2,900 BTU/h maximum
Noise level (typical at 25°C/77°F)	35 dB(A)
Operating temperature	10 to 45 °C at Sea Level Optimal Set Point: 20 °C

Bragi

Using Barco's renowned Pulse electronic and software platform, Bragi is powered by a revolutionary, new, high lumens density (HLD) RGB LED light engine.



- Theater Series
- 4K UHD Resolution (3,840 x 2,160)
- Solid State RGB LED
- Up to 2,600 ANSI Lumens

Bragi takes its name from an historical ninth-century poet. His poems were so outstandingly artful and moving that subsequent generations imagined that, upon his death, Odin had appointed him the court poet of Valhalla.

Bragi, being Balder's brother and inherits the same design philosophy, optical core and lenses.

State of the art electronics

Our Pulse electronics are built on a superior FPGA platform featuring a dual core processor on the industry's only 20 nm SoC, with 96 transceiver lanes delivering 3.3Tbps of serial bandwidth.

Thanks to our unique single step processing technology (SSPTM), Pulse electronics are designed to process 4K UHD, HDMI 2.0a, HDCP 2.2 and HDR10 signals with extremely low latency.

Bragi uses the very latest 0.9" DMD DLP chipset, to display flawless 4K UHD (3,840 x 2,160 px) images.

LED Engine

Bragi uses a new optical engine, incorporating the best elements from previous models and combining them with new technologies, creating an even better optical engine.

Bragi's optical engine is not the only part that is redesigned, the light source is brand new, and this time it's not laser. The light source uses the very latest high lumens density (HLD), LED illumination technology.

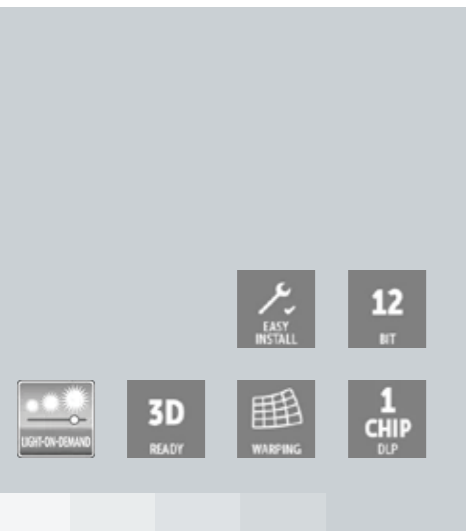
Product specifications

BRAGI

General specifications	
Projector type	Single chip DLP
Technology	0.9" DMD™
Resolution	3,840 x 2,160 (4K UHD)
Aspect ratio	1.78:1
Light source	Solid State RGB LED
Light source lifetime	Up to 50,000 hours * Brightness mode dependent
Light output	Up to 2,600 ANSI Lumens
CLO (constant light output)	Yes
Contrast ratio	1,800:1 Sequential 450:1 ANSI
Brightness uniformity	>90%
Lens range	(R9802232) -EN68 (0.30:1) -Periscope Lens (requires vertical installation) (R9801832) -FLDX UST (0.41:1) -90°ns (R9802244) -EN67 (0.65:1) (R9802243) -EN66 (0.80 - 1.21:1) (R9802003) -EN76 (0.95 - 1.30:1) (R9802242) -EN63 (1.20 - 1.70:1) * (R9802241) -EN61 (1.70 - 2.50:1) * (R9801211) -EN44 (2.50 - 4.60:1) * Standard Lens Option(s)
Optical lens shift	Up to 88% vertical lens shift & up to 38% horizontal lens shift (depending on lens selection) Visit the Barco Residential Lens Calculator for further information Download Lens & Airflow Data Here
Optical dowsner	Yes
Color correction	P7 RealColor™
Color gamut	REC.709 DCI (P3) via internal filter
Image processing	Embedded Warp & Blend Engine
WARP	4-Corner Warp & Bow Correction via Warp Engine
Orientation	360° Rotation
Network connection	10/100 Ethernet via RJ45 connection
Integrated web server	Yes
Diagnostics	via Prospector web interface
HDR	HDR10
3D	Active Stereoscopic 3D Additional hardware required please contact an authorized Barco representative for details
Inputs	1 x HDMI™ 2.0 (HDCP 2.2) 1 x HDBaseT (HDCP 1.4 -9Gbps only) 2 x Dual Link DVI-D 2 x Display Port (1.2) 12G-SDI 1 x RJ45 Ethernet 1 x RS232 1 x Remote Control (RC) 3 x USB (2 x Rear, 1 x Front) DMX (1 x Input, 1 x Output)

Bragi CinemaScope

Using Barco's renowned Pulse electronic and software platform, Bragi CinemaScope is powered by a revolutionary, new, high lumens density (HLD) RGB LED light engine.



- Theater Series
- 5K UHD Resolution (5,120 x 2,160)
- Solid State RGB LED
- Up to 2,200 ANSI Lumens

Bragi takes its name from an historical ninth-century poet. His poems were so outstandingly artful and moving that subsequent generations imagined that, upon his death, Odin had appointed him the court poet of Valhalla.

Bragi, being Balder's brother and inherits the same design philosophy, optical core and lenses.

Professional grade optics

By basing Bragi CinemaScope's optical engine on its bigger brother Balder CinemaScope's architecture, incorporating custom designed aspherical glass elements and enhanced low dispersion glass lenses, image quality is in a class of its own.

Topping that, Bragi's chassis and core are built from aluminium and magnesium, which offer exceptional robustness, resulting in the best picture quality ever shown at this level.

State of the art electronics

Thanks to our unique single step processing technology (SSPTM), Pulse electronics are designed to process 4K UHD, HDMITM 2.0a, HDCP 2.2 and HDR10 signals with extremely low latency.

Bragi CinemaScope uses the very latest 0.9" DMD DLP chipset, to display flawless 5K UHD (5,120 x 2,160 px), 2.37:1 aspect ratio images on screen.

CinemaScope

Our unique aspect ratio detection system, automatically crops and scales

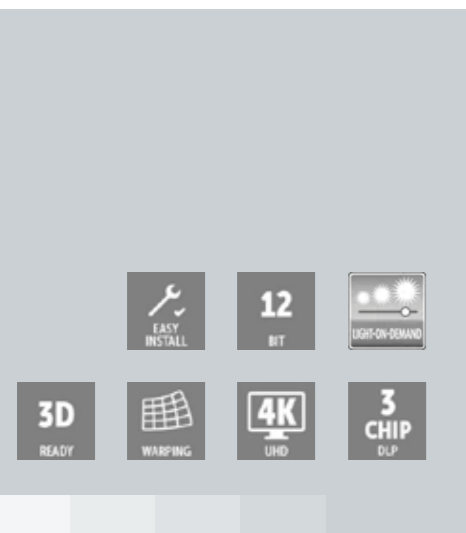
Product specifications

BRAGI CINEMASCOPE

General specifications	
Projector type	Single chip DLP
Technology	0.9" DMD™
Resolution	5,120 x 2,160 (5K UHD)
Aspect ratio	2.37:1 (CinemaScope)
Light source	Solid State RGB LED
Light source lifetime	Up to 50,000 hours * Brightness mode dependent
Light output	Up to 2,200 ANSI Lumens
CLO (constant light output)	Yes
Contrast ratio	1,800:1 Sequential 450:1 ANSI
Brightness uniformity	>90%
Lens range	(R9802232) -EN68 (0.30:1) -Periscope Lens (requires vertical installation) (R9801832) -FLDX UST (0.41:1) -90°ns (R9802244) -EN67 (0.65:1) (R9802243) -EN66 (0.80 - 1.21:1) (R9802003) -EN76 (0.95 - 1.30:1) (R9802242) -EN63 (1.20 - 1.70:1) * (R9802241) -EN61 (1.70 - 2.50:1) * (R9801211) -EN44 (2.50 - 4.60:1) * Standard Lens Option(s)
Optical lens shift	Up to 122% vertical lens shift & up to 40% horizontal lens shift (depending on lens selection) Visit the Barco Residential Lens Calculator for further information Download Lens & Airflow Data Here
Optical dowser	Yes
Color correction	P7 RealColor™
Color gamut	REC.709 DCI (P3) via internal filter
Image processing	Embedded Warp & Blend Engine
WARP	4-Corner Warp & Bow Correction via Warp Engine
Orientation	360° Rotation
Network connection	10/100 Ethernet via RJ45 connection
Integrated web server	Yes
Diagnostics	via Prospector web interface
HDR	HDR10
3D	Active Stereoscopic 3D Additional hardware required please contact an authorized Barco representative for details
Inputs	1 x HDMI 2.0 (HDCP 2.2) 1 x HDBaseT (HDCP 1.4 -9Gbps only) 2 x Dual Link DVI-D 2 x Display Port (1.2) 12G-SDI 1 x RJ45 Ethernet 1 x RS232 1 x Remote Control (RC) 3 x USB (2 x Rear, 1 x Front) DMX (1 x Input, 1 x Output)

Njord

Njord has a pleasing calm uniform image and is designed for large screens or high ambient light environments.



- Theater & Media Room Series
- 4K UHD Resolution (3,820 x 2,160)
- 3-Chip DLP
- Up to 12,500 ANSI Lumens

Njord inherits a lot from its predecessor Wodan, however, the light source and optical engine are completely redesigned, made smaller, more efficient, and most importantly optimized for perfect cinematic colors.

Njord not only offers a pleasing uniform image, it also has the power to illuminate large screens or high ambient light environments; like outdoor entertainment spaces and contemporary glass home designs. These environments will all benefit from an unbelievably bright and detailed image with spectacular color fidelity for the most demanding clients.

Single Step Processing SSP™

Pulse is a hardware and software based platform that simplifies the signal allowing it to transmit from source to screen much faster and more efficiently. We use an advanced image processing technique to display the image on the screen without any artefacts and with the lowest possible processing lag (<20ms with all image processing), this is made possible by our Single Step Processing (SSP™).

State of the art electronics

All new Pulse electronics have been designed to process 4K with HDMITM 2.0a and HDCP 2.2 and the optical engine utilises the very latest 0.9" DMD DLP chipset, delivering 5,120 x 2,160 pixels to screen. Njord also features HDR, motorised lenses and Barco's unique RealColor processing, enables simple and accurate calibration to any desired color standard or white point.

Building Blocks

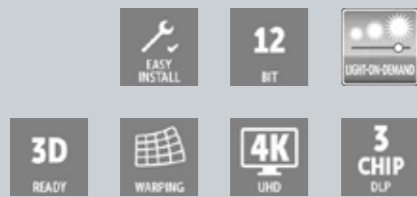
Product specifications

NJORD

General specifications	
Projector type	Three chip DLP
Technology	3 x 0.90" DMD™ with sealed core
Resolution	3,840 x 2,160 (4K UHD)
Aspect ratio	1.78:1 (16:9)
Light source	Laser phosphor
Light source lifetime	Up to 20,000
Light output	Up to 12,500 ANSI Lumens Dimable to 4,000 lumens
	NOTE: Up to 9,350 ANSI Lumens @ 110v
CLO (constant light output)	Yes
Contrast ratio	20,000:1 (with DynaBlack enabled) 2,000:1 Sequential 600:1 ANSI
Brightness uniformity	>90%
Lens range	(R9801661) -TLD+ (0.41:1) -90 Degree Lens (R9862001) -TLD+ (0.73 - 0.94:1) -90 Degree Lens (R9801414) -TLD+ (0.92 - 1.33:1) (R9862005) -TLD+ (1.24 - 1.56:1) (R9862010) -TLD+ (1.49 - 2.02:1) * (R9862020) -TLD+ (2.01 - 2.76:1) * (R9862030) -TLD+ (2.69 - 4.41:1) * (R9862040) -TLD+ (4.37 - 7.35:1) * (R9829997) -TLD+ (6.95 - 10.83:1)
	* Standard Lens Option(s)
Optical lens shift	Up to 73% vertical lens shift & up to 28% horizontal lens shift (depending on lens selection) Visit the Barco Residential Lens Calculator for further information Download Lens & Airflow Data Here
Optical dowser	Yes
Color correction	P7 RealColor™
Color gamut	Up to DCI (P3)
Image processing	Embedded Warp & Blend Engine
WARP	4-Corner Warp & Bow Correction via Warp Engine
Orientation	360° Rotation
Network connection	10/100 Ethernet via RJ45 connection
Integrated web server	Yes
Diagnostics	via Prospector web interface
HDR	HDR10
3D	Active Stereoscopic 3D Additional hardware required please contact an authorized Barco representative for details
Inputs	1 x HDMITM 2.0 (HDCP 2.2) 2 x HDBaseT (HDCP 1.4 -9Gbps only) 1 x Display Port 1.2 Quad 3G / 12G SDI / BarcoLink 1 x RJ45 Ethernet 1 x RS232 1 x USB 2 x DMX (1 x Input / 1 x Output) 1 x XLR for Wired Remote 2 x 3D Sync (1 x Input / 1 x Output) Optional Upgrade: Quad DP1.2
Input resolutions	HDMITM: Up to 4,096 x 2,160 @ 24/25/30/50/60Hz DisplayPort (Single Input): Up to 4,096 x 2,160 @ 24/30/50/60Hz via Optional Quad DP1.2 Input Card DisplayPort (Layout Mode: 2 x 2) *: Up to 1,920 x 1,080 @ 120Hz Up to 2,048 x 1,080 @ 120Hz DisplayPort (Layout Mode: 4 x 1) *: Up to 960 x 2,160 @ 120Hz * Specialist GFX cards may be required
Latency	TBD
Control	IR, RS232, IP, 12v Trigger Driver modules available for: Crestron, Control4, RTI & Savant WiFi (Optional), XLR Wired Remote, GSM (Optional)
Power requirements	110 -130V / 200 -240V / 50 -60Hz

Njord Cinemascope

Njord Cinemascope has a pleasing calm uniform image and is designed for large screens or high ambient light environments.



- Theater & Media Room Series
- 5K UHD Resolution (5,120 x 2,160)
- 3-Chip DLP
- Up to 9,000 ANSI Lumens

Njord Cinemascope inherits everything from Njord except the aspect ratio, Njord Cinemascope's high-capacity 2.37:1 aspect DLP engine. Its exceptional design allows a cinemascope film to be shown without requiring an anamorphic lens. The light source and optical engine are completely redesigned, made smaller, more efficient, and most importantly optimized for perfect cinematic colors compared to the older model Wodan.

Our Njord Cineascope features a pleasing and uniform image with the power light up large cinemascope screens, whilst delivering an unbelievably detailed image with spectacular color fidelity for an unmatched experience that will delight even the most discerning clients.

Single Step Processing SSP™

Pulse is a hardware and software based platform that simplifies the signal allowing it to transmit from source to screen much faster and more efficiently. We use an advanced image processing technique to display the image on the screen without any artefacts and with the lowest possible processing lag (<20ms with all image processing), this is made possible by our Single Step Processing (SSP™).

State of the art electronics

All new Pulse electronics have been designed to process 4K with HDMITM 2.0a and HDCP 2.2 and the optical engine utilises the very latest 0.9" DMD DLP chipset, delivering 5,120 x 2,160 pixels to screen. Njord CS also features HDR, motorised lenses and Barco's unique RealColor processing, enables simple and accurate calibration to any desired color standard or white point.

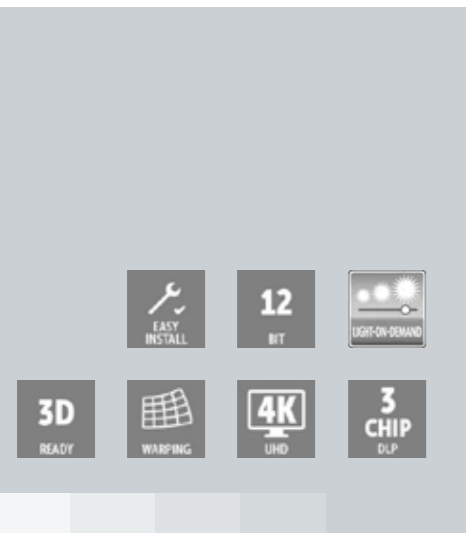
Product specifications

NJORD CINEMASCOPE

General specifications	
Projector type	Three chip DLP
Technology	3 x 0.90" DMD™ with sealed core
Resolution	5120 x 2,160 (5K UHD)
Aspect ratio	2.37:1 (CinemaScope)
Light source	Laser phosphor
Light source lifetime	Up to 20,000
Light output	Up to 9,000 ANSI Lumens Dimable to 4,000 lumens NOTE: Up to 6,940 ANSI Lumens @ 110v
CLO (constant light output)	Yes
Contrast ratio	20,000:1 (with DynaBlack enabled) 2,000:1 Sequential 600:1 ANSI
Brightness uniformity	>90%
Lens range	(R9801661) -TLD+ (0.41:1) -90 Degree Lens (R9862001) -TLD+ (0.73 - 0.94:1) -90 Degree Lens (R9801414) -TLD+ (0.92 - 1.33:1) (R9862005) -TLD+ (1.24 - 1.56:1) (R9862010) -TLD+ (1.49 - 2.02:1) * (R9862020) -TLD+ (2.01 - 2.76:1) * (R9862030) -TLD+ (2.69 - 4.41:1) * (R9862040) -TLD+ (4.37 - 7.35:1) * (R9829997) -TLD+ (6.95 - 10.83:1) * Standard Lens Option(s)
Optical lens shift	Up to 97% shift up, 76% down, & up to 28% horizontal lens shift (depending on lens selection) Visit the Barco Residential Lens Calculator for further information Download Lens & Airflow Data Here
Optical dowser	Yes
Color correction	P7 RealColor™
Color gamut	Up to DCI (P3)
Image processing	Embedded Warp & Blend Engine
WARP	4-Corner Warp & Bow Correction via Warp Engine
Orientation	360° Rotation
Network connection	10/100 Ethernet via RJ45 connection
Integrated web server	Yes
Diagnostics	via Prospector web interface
HDR	HDR10
3D	Active Stereoscopic 3D Additional hardware required please contact an authorized Barco representative for details

Hodr

Hodr has a pleasing calm uniform image and is designed for large screens or high ambient light environments.



- Theatre & Media room Series
- 4K UHD Resolution (3840 x 2,160)
- 3-Chip DLP
- Up to 7,500 ANSI Lumens

Hodr delivers perfect cinematic colors, supporting DCI/P3 color gamut.

Our Hodr features a pleasing and uniform image with the power light up medium to large screens, whilst delivering an unbelievably detailed image with spectacular color fidelity for an unmatched experience that will delight even the most discerning clients.

Single Step Processing SSP™

Pulse is a hardware and software based platform that simplifies the signal allowing it to transmit from source to screen much faster and more efficiently. We use an advanced image processing technique to display the image on the screen without any artefacts and with the lowest possible processing lag (<20ms with all image processing), this is made possible by our Single Step Processing (SSP™).

State of the art electronics

All new Pulse electronics have been designed to process 4K with HDMITM 2.0a and HDCP 2.2 and the optical engine utilises the very latest 0.9" DMD DLP chipset, delivering 3,840 x 2,160 pixels to screen. Hodr also features HDR, motorised lenses and Barco's unique RealColor processing, enables simple and accurate calibration to any desired color standard or white point.

Building Blocks

Hodr offers 4K UHD resolution (3,840 x 2,160) for superb image quality. Thanks to its modular design of only five building blocks, Hodr is easy to service.

Laser Light Source

Outstanding image quality also requires an exceptional light source which is why we designed Hodr with a brand new laser engine, significantly improving image uniformity (95%) over its predecessor. Hodr uses custom selected lasers to secure that we can deliver DCI/P3 color gamut.

Lasers last longer than traditional projector lamps, are not as fragile and offer nearly instant on/off.

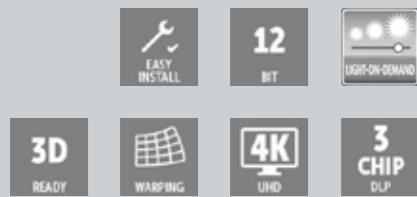
Product specifications

HODR

General specifications	
Projector type	Three chip DLP
Technology	3 x 0.90" DMD™ with sealed core
Resolution	3,840 x 2,160 (4K UHD)
Aspect ratio	1.78:1 (16:9)
Light source	Laser phosphor
Light source lifetime	Up to 20,000
Light output	Up to 7,500 ANSI Lumens Dimable to 4,000 lumens
CLO (constant light output)	Yes
Contrast ratio	20,000:1 (with DynaBlack enabled) 2,000:1 Sequential 600:1 ANSI
Brightness uniformity	>90%
Lens range	(R9801661) -TLD+ (0.41:1) -90 Degree Lens (R9862001) -TLD+ (0.73 - 0.94:1) -90 Degree Lens (R9801414) -TLD+ (0.92 - 1.33:1) (R9862005) -TLD+ (1.24 - 1.56:1) (R9862010) -TLD+ (1.49 - 2.02:1) * (R9862020) -TLD+ (2.01 - 2.76:1) * (R9862030) -TLD+ (2.69 - 4.41:1) * (R9862040) -TLD+ (4.37 - 7.35:1) * (R9829997) -TLD+ (6.95 - 10.83:1)
	* Standard Lens Option(s)
Optical lens shift	Up to 73% vertical lens shift & up to 28% horizontal lens shift (depending on lens selection) Visit the Barco Residential Lens Calculator for further information Download Lens & Airflow Data Here
Optical dowsler	Yes
Color correction	P7 RealColor™
Color gamut	Up to DCI (P3)
Image processing	Embedded Warp & Blend Engine
WARP	4-Corner Warp & Bow Correction via Warp Engine
Orientation	360° Rotation
Network connection	10/100 Ethernet via RJ45 connection
Integrated web server	Yes
Diagnostics	via Prospector web interface
HDR	HDR10
3D	Active Stereoscopic 3D Additional hardware required please contact an authorized Barco representative for details

Hodr Cinemascope

Hodr Cinemascope has a pleasing calm uniform image and is designed for large screens or high ambient light environments.



- Theater & Media Room Series
- 5K UHD Resolution (5,120 x 2,160)
- 3-Chip DLP
- Up to 5,600 ANSI Lumens

Hodr Cinemascope is Njord Cinemascope's little brother and means warrior. Hodr Cinemascope delivers perfect cinematic colors, supporting DCI/P3 color gamut, coupled with a high-capacity 2.37:1 aspect DLP engine. Its exceptional design allows a cinemascope film to be shown without requiring an anamorphic lens.

Our Hodr Cinemascope features a pleasing and uniform image with the power light up medium to large screens, whilst delivering an unbelievably detailed image with spectacular color fidelity for an unmatched experience that will delight even the most discerning clients.

Single Step Processing SSP™

Pulse is a hardware and software based platform that simplifies the signal allowing it to transmit from source to screen much faster and more efficiently. We use an advanced image processing technique to display the image on the screen without any artefacts and with the lowest possible processing lag (<20ms with all image processing), this is made possible by our Single Step Processing (SSP™).

State of the art electronics

All new Pulse electronics have been designed to process 4K with HDMITM 2.0a and HDCP 2.2 and the optical engine utilises the very latest 0.9" DMD DLP chipset, delivering 5,120 x 2,160 pixels to screen. Hodr CS also features HDR, motorised lenses and Barco's unique RealColor processing, enables simple and accurate calibration to any desired color standard or white point.

Product specifications

HODR CINEMASCOPE

General specifications

Projector type	Three chip DLP
Technology	3 x 0.90" DMD™ with sealed core
Resolution	5,120 x 2,160 (5K UHD)
Aspect ratio	2.37:1 (CinemaScope)
Light source	Laser phosphor
Light source lifetime	Up to 20,000
Light output	Up to 5,600 ANSI Lumens Dimable to 3,000 lumens
CLO (constant light output)	Yes
Contrast ratio	20,000:1 (with DynaBlack enabled) 2,000:1 Sequential 600:1 ANSI
Brightness uniformity	>90%
Lens range	(R9801661) -TLD+ (0.41:1) -90 Degree Lens (R9862001) -TLD+ (0.73 - 0.94:1) -90 Degree Lens (R9801414) -TLD+ (0.92 - 1.33:1) (R9862005) -TLD+ (1.24 - 1.56:1) (R9862010) -TLD+ (1.49 - 2.02:1) * (R9862020) -TLD+ (2.01 - 2.76:1) * (R9862030) -TLD+ (2.69 - 4.41:1) * (R9862040) -TLD+ (4.37 - 7.35:1) * (R9829997) -TLD+ (6.95 - 10.83:1) * Standard Lens Option(s)
Optical lens shift	Up to 97% shift up, 76% down, & up to 28% Horizontal (depending on lens selection) Visit the Barco Residential Lens Calculator for further information Download Lens & Airflow Data Here
Optical dowser	Yes
Color correction	P7 RealColor™
Color gamut	Up to DCI (P3)
Image processing	Embedded Warp & Blend Engine
WARP	4-Corner Warp & Bow Correction via Warp Engine
Orientation	360° Rotation
Network connection	10/100 Ethernet via RJ45 connection
Integrated web server	Yes

Balder

A divine force, bringing beauty and life to the most refined home cinema and media rooms.



- Theater & Media Room Series
- 4K UHD Resolution (3,840 x 2,160)
- Laser Phosphor
- Up to 7,000 ANSI Lumens

Manufactured to perfection in Belgium, Balder is built from the highest quality materials including aluminium, magnesium and glass. Balder not only shares the same Ultra HD and HDR compatible Pulse electronics as Loki, the optical design and single laser engine are also taken from the Loki platform.

Professional grade optics

By basing Balder's optical engine on its bigger brother Loki's architecture, which features custom designed aspherical glass elements and enhanced low dispersion glass lenses, image quality is in a class of its own.

Topping that, Balder's chassis and core are built from aluminium and magnesium, which offer exceptional robustness, resulting in the best picture quality ever shown at this level.

State of the art electronics

Our "Pulse" electronics are built on a superior FPGA platform, featuring a dual core processor on the industry's only 20 nm SoC, with 96 transceiver lanes delivering 3.3 Tbps of serial bandwidth.

Thanks to our unique single step processing technology (SSPTM), Pulse electronics are designed to process 4K UHD, HDMITM 2.0a, HDCP 2.2 and HDR10 signals with extremely low latency. This provides exceptional gaming and movie viewing experiences.

Laser light source

Outstanding image quality requires an exceptional light source, which is why Balder uses our brand-new laser engine which delivers up to 7,000 ANSI lumens output.

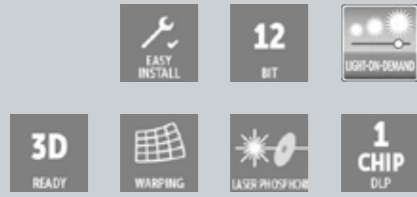
Product specifications

BALDER

General specifications	
Projector type	Single chip DLP
Technology	0.9" DMD™
Resolution	3,840 x 2,160 (4K UHD)
Aspect ratio	1.78:1 (16:9)
Light source	Laser phosphor
Light source lifetime	20,000 - 60,000 hours Laser intensity dependent
Light output	DCI (P3) Color Wheel: Up to 4,000 ANSI lumens T Color Wheel: Up to 5,000 ANSI lumens M Color Wheel: Up to 7,000 ANSI lumens
CLO (constant light output)	Yes
Contrast ratio	1,800:1 Sequential 450:1 ANSI
Brightness uniformity	>90%
Lens range	(R9802232) -EN68 (0.30:1) -Periscope Lens (requires vertical installation) (R9801832) -FLDX UST (0.41:1) -90°ns (R9802244) -EN67 (0.65:1) (R9802243) -EN66 (0.80 - 1.21:1) (R9802003) -EN76 (0.95 - 1.30:1) (R9802242) -EN63 (1.20 - 1.70:1) * (R9802241) -EN61 (1.70 - 2.50:1) * (R9801211) -EN44 (2.50 - 4.60:1) * Standard Lens Option(s)
Optical lens shift	Up to 88% vertical lens shift & up to 38% horizontal lens shift (depending on lens selection) Visit the Barco Residential Lens Calculator for further information Download Lens & Airflow Data Here
Optical dowser	Yes
Color correction	P7 RealColor™
Color gamut	DCI (P3) Color Wheel: DCI P3 T Color Wheel: REC.709 M Color Wheel: REC.709
Image processing	Embedded Warp & Blend Engine
WARP	4-Corner Warp & Bow Correction via Warp Engine
Orientation	360° Rotation
Network connection	10/100 Ethernet via RJ45 connection
Integrated web server	Yes
Diagnostics	via Prospector web interface
HDR	HDR10
3D	Active Stereoscopic 3D Additional hardware required please contact an authorized Barco representative for details
Inputs	1 x HDMITM 2.0 (HDCP 2.2) 1 x HDBaseT (HDCP 1.4 -9Gbps only) 2 x Dual Link DVI-D 2 x Display Port (1.2) 12G-SDI 1 x RJ45 Ethernet 1 x RS232 1 x Remote Control (RC) 3 x USB (2 x Rear, 1 x Front) DMX (1 x Input, 1 x Output)
Input resolutions	From VGA up to 4K UHD (3,840 x 2,160) @ 60Hz or up to 2,560 x 1,600 @ 120Hz
Latency	TBD
Control	IR, RS232, IP, 12v Trigger Driver modules available for: Crestron, Control4, RTI & Savant NOTE: 12v Trigger(s) do not follow standard functionality and require an IP command to enable / disable them. Download our integration guide for more information.
Power requirements	100 -240V / 50 -60Hz
Power consumption	1,100 W -Max.
BTU per hour	4,000 BTU/h -Max.
Standby power	Standby ECO Mode: 110v -0.73W (with LAN Connection) 230v -0.82W (with LAN Connection)
Noise level (typical at 25°C/77°F)	36 dB(A)
Operating temperature	10 to 45 °C at Sea Level Optimal Set Point: 20 °C
Operational humidity	20 to 80% (relative humidity)

Balder CinemaScope

The cornerstone of home cinema systems designed to deliver outstanding experiences in the world's finest homes.



- Theater & Media Room Series
- 5K UHD Resolution (5,120 x 2,160)
- Laser Phosphor
- Up to 5,600 ANSI Lumens

Balder incorporates our unique PULSE electronics platform, inhouse designed laser engine and the world's finest optical components, fusing them together with the imaging device technology chosen by 9 out of 10 professional cinemas: DLP.

Professional grade optics

By basing Balder CinemaScope's optical engine on its bigger brother Loki's CinemaScope's architecture, incorporating custom designed aspherical glass elements and enhanced low dispersion glass lenses, image quality is in a class of its own. Topping that, Balder's chassis and core are built from aluminium and magnesium, which offer exceptional robustness, resulting in the best picture quality ever shown at this level.

By basing Balder CinemaScope's optical engine on its bigger brother Loki's CinemaScope's architecture, incorporating custom designed aspherical glass elements and enhanced low dispersion glass lenses, image quality is in a class of its own.

Topping that, Balder's chassis and core are built from aluminium and magnesium, which offer exceptional robustness, resulting in the best picture quality ever shown at this level.

State of the art electronics

Thanks to our unique single step processing technology (SSPTM), Pulse electronics are designed to process 4K UHD, HDMI 2.0a, HDCP 2.2 and HDR10 signals with extremely low latency.

Balder CinemaScope uses the very latest 0.9" DMD DLP chipset, to display flawless 5K UHD (5,120 x 2,160 px), 2.37:1 aspect ratio images on screen.

Product specifications

BALDER CINEMASCOPE

General specifications	
Projector type	Single chip DLP
Technology	0.9" DMD™
Resolution	5,120 x 2,160 (5K UHD)
Aspect ratio	2.37:1 (CinemaScope)
Light source	Laser phosphor
Light source lifetime	20,000 - 60,000 hours Laser intensity dependent
Light output	DCI (P3) Color Wheel: Up to 3,600 ANSI lumens T Color Wheel: Up to 4,000 ANSI lumens M Color Wheel: Up to 5,600 ANSI lumens
CLO (constant light output)	Yes
Contrast ratio	1,800:1 Sequential 450:1 ANSI
Brightness uniformity	>90%
Lens range	(R9802232) -EN68 (0.30:1) -Periscope Lens (requires vertical installation) (R9801832) -FLDX UST (0.41:1) -90°ns (R9802244) -EN67 (0.65:1) (R9802243) -EN66 (0.80 - 1.21:1) (R9802003) -EN76 (0.95 - 1.30:1) (R9802242) -EN63 (1.20 - 1.70:1) * (R9802241) -EN61 (1.70 - 2.50:1) * (R9801211) -EN44 (2.50 - 4.60:1) * Standard Lens Option(s)
Optical lens shift	Up to 122% vertical lens shift & up to 40% horizontal lens shift (depending on lens selection) Visit the Barco Residential Lens Calculator for further information Download Lens & Airflow Data Here
Optical dower	Yes
Color correction	P7 RealColor™
Color gamut	DCI (P3) Color Wheel: DCI P3 T Color Wheel: REC.709 M Color Wheel: REC.709
Image processing	Embedded Warp & Blend Engine
WARP	4-Corner Warp & Bow Correction via Warp Engine
Orientation	360° Rotation
Network connection	10/100 Ethernet via RJ45 connection
Integrated web server	Yes
Diagnostics	via Prospector web interface
HDR	HDR10
3D	Active Stereoscopic 3D Additional hardware required please contact an authorized Barco representative for details
Inputs	1 x HDMI™ 2.0 (HDCP 2.2) 1 x HDBaseT (HDCP 1.4 -9Gbps only) 2 x Dual Link DVI-D 2 x Display Port (1.2) 12G-SDI 1 x RJ45 Ethernet 1 x RS232 1 x Remote Control (RC) 3 x USB (2 x Rear, 1 x Front) DMX (1 x Input, 1 x Output)
Input resolutions	From VGA up to 4K UHD (3,840 x 2,160) @ 60Hz or up to 2,560 x 1,600 @ 120Hz
Latency	TBD
Control	IR, RS232, IP, 12v Trigger Driver modules available for: Crestron, Control4, RTI & Savant NOTE: 12v Trigger(s) do not follow standard functionality and require an IP command to enable / disable them. Download our integration guide for more information.
Power requirements	100 -240V / 50 -60Hz
Power consumption	1,100 W -Max.
Standby power	Standby ECO Mode: 110v -0.73W (with LAN Connection) 230v -0.82W (with LAN Connection)
BTU per hour	4,000 BTU/h -Max.
Noise level (typical at 25°C/77°F)	36 dB(A)
Operating temperature	10 to 45 °C at Sea Level Optimal Set Point: 20 °C
Operational humidity	20 to 80% (relative humidity)

SERIES C-S



C-Series

These exceptional projectors are the ultimate expression of Barco Residential's unwavering dedication to craftsmanship and image quality. Built with the best professional cinema technologies and fully DCI compliant, they have been exclusively enhanced for the home environment. The choice of film professionals.

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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
- Architectural Edition Available

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.

Offering advanced processing power combined with media server functionality, integrated playback and content management, Barco Alchemy supports 4K 2D content at up to 60fps and 4K 3D at 30fps. By simplifying the hardware requirements installation is simpler and the system made more reliable and

Product specifications

FREYA

General specifications	
Projector type	Three chip DLP
Technology	3x 0.98" DC4K TRP
Resolution	4,096 x 2,160 (4K)
Aspect ratio	1.89:1
Light source	RGB Laser
Light output	7,500 ANSI Lumens
Contrast ratio	5,500:1 Sequential 1,000:1 ANSI
Brightness uniformity	80% at Sides 75% at Corners
Lens range	Type B Lenses: (R98013983) -Zoom Lens 1.38" VHC HDR 4K: 1.58 - 2.41.1 * (R98013333) -Zoom Lens 1.38" VHC HDR 4K: 1.89 - 2.58.1 * (R98013343) -Zoom Lens 1.38" VHC HDR 4K: 2.03 - 2.94.1 * (R98013533) -Zoom Lens 1.38" VHC HDR 4K: 2.31 - 3.78.1 * (R98013543) -Zoom Lens 1.38" VHC HDR 4K: 2.77 - 4.76.1 * Type C Lenses: (R98620053) -TLD+ VHC ULTRA LENS: 1.09 -1.40.1 (R98620103) -TLD+ VHC ULTRA LENS: 1.28 -1.74.1 * Standard Lens Option(s)
Optical lens shift	Type B Lenses: 55% Up or Down 30% Left or Right Type C Lenses: 21% Up or 50% Down 10% Left or Right
Tilt	Freya: 150 Forwards 150 Backwards Freya Architectural: 90 Forwards 90 Backwards
Color correction	P7
Color gamut	DCI P3/100% Rec.2020; when measured in xy-color coordinates)
Image processing	Alchemy - Integrated Cinema Media Processor (ICMP)
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 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)
DCI	DCI Compliant
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	Single Phase: 200 -240V, L1 + N + PE, 9A, 50 -60Hz (Y) Triple Phase: 200 -240 / 346 -415V, 3W + N + PE, 8A, 50/60Hz Triple Phase: 200 -240, 3W + PE, 8A, 50/60Hz
Power consumption	1.4kW (3W in Eco Mode)
Noise level (typical at 25°C/77°F)	48 dB(A) -Min (ambient temperature below 20°C) 50 dB(A) -Normal 60 dB(A) -Max (ambient temperature over 35°C)
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
Exhaust airflow	300 CFM

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
- Up to 13,500 ANSI Lumens
- Architectural Edition Available

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.

Offering advanced processing power combined with media server functionality, integrated playback and content management, Barco Alchemy supports 4K 2D content at up to 60fps and 4K 3D at 30fps. By simplifying the hardware requirements installation is simpler and the system made more reliable and

Product specifications

FREYA+

General specifications	
Projector type	Three chip DLP
Technology	3x 0.98" DC4K TRP
Resolution	4,096 x 2,160 (4K)
Aspect ratio	1.89:1
Light source	RGB Laser
Light output	13,500 ANSI Lumens
Contrast ratio	5,500:1 Sequential 1,000:1 ANSI
Brightness uniformity	80% at Sides 75% at Corners
Lens range	Type B Lenses: (R98013983) -Zoom Lens 1.38" VHC HDR 4K: 1.58 - 2.41.1 * (R98013333) -Zoom Lens 1.38" VHC HDR 4K: 1.89 - 2.58.1 * (R98013343) -Zoom Lens 1.38" VHC HDR 4K: 2.03 - 2.94.1 * (R98013533) -Zoom Lens 1.38" VHC HDR 4K: 2.31 - 3.78.1 * (R98013543) -Zoom Lens 1.38" VHC HDR 4K: 2.77 - 4.76.1 * Type C Lenses: (R98620053) -TLD+ VHC ULTRA LENS: 1.09 -1.40.1 (R98620103) -TLD+ VHC ULTRA LENS: 1.28 -1.74.1 * Standard Lens Option(s)
Optical lens shift	Type B Lenses: 55% Up and Down 30% Left and Right Type C Lenses: 21% Up and 50% Down 10% Left and Right
Tilt	Freya+: 150 Forwards 150 Backwards Freya+ Architectural: 900 Forwards 900 Backwards
Color correction	P7
Color gamut	DCI P3 / 100% of Rec.2020, when measured in xy-color coordinates)
Image processing	Alchemy - Integrated Cinema Media Processor (ICMP)
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 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)
DCI	DCI Compliant
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	Single Phase: 200 -240V, L1 + N + PE, 14A, 50 -60Hz (Y) Triple Phase: 200 -240V / 346 -415V, 3W + N + PE, 9A, 50/60Hz Triple Phase: 200 -240V, 3W + PE, 11A, 50/60Hz
Power consumption	2.4kW (3W in Eco Mode)
Noise level (typical at 25°C/77°F)	48 dB(A) -Min (ambient temperature below 20°C) 50 dB(A) -Normal 60 dB(A) -Max (ambient temperature over 35°C)
Operating temperature	10 -40°C (104F) Max. (at Sea Level)
Operating humidity	20 -80% Relative Humidity
BTU per hour	7,750 BTU/h
Airflow requirements	Air Inlet (from Rear w/Feet Down): Front / Rear / Bottom (at user input side)
Exhaust airflow	Exhaust (from Rear w/Feet Down): Top 400 CFM

Nerthus

Barco Residential's Nerthus 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 32,000 Lumens
- Architectural Edition Available

Nerthus is a deity, associated with prosperity and peace. She is also the sister of Njord and the mother of Freya. This new Barco Residential flagship projector is part of the Series 4 platform, which is then combined with Alchemy, creating a very smart, easy to use projector.

Nerthus is exclusively created for high-end home theaters, with 32,000 lumens, more contrast, covering 100% of the REC.2020 color gamut. It features the latest native 4K DLP Cinema® chips from Texas Instruments and the acclaimed Barco Alchemy ICMP-XS (Integrated Cinema Media Processor).

The result? A custom-designed residential cinema projector with enhanced contrast for the ultimate image quality. Nerthus is available with a wide range of lenses, offering you the freedom of flexible installation. Play either DCI encrypted content or your favorite 4K HDR consumer content via HDMI™ 2.0 with HDCP 2.2.

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 Nerthus projector.

Brilliant Image

Nerthus brings native 4K resolution, higher contrast and enhanced uniformity

Product specifications

NERTHUS

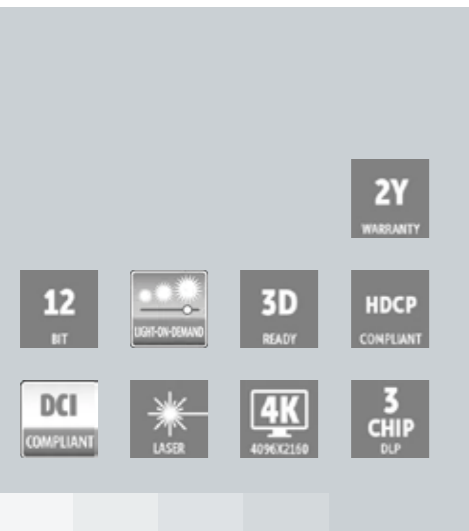
General specifications	
Projector type	Three chip DLP
Light source lifetime	40,000 hours
Technology	3x 1.38" DC4K
Resolution	native 4K: 4096 x 2160
Light source	RGB Laser
Light output	32,000 Lumens
Contrast ratio	5000:1
Lens range	1.13-1.72; 1.35-1.84; 1.45-2.10; 1.65-2.70; 1.98-3.40 (Very High-Contrast B-lenses)
Optical lens shift	-35% to +15% Vertical shift -7.5% to +7.5% Horizontal shift
Color gamut	DCI P3 / 100% Rec.2020 (when measured in xy-color coordinates)
HDR	HDR10
3D	Active glasses systems and polarization systems on silver screens are supported. Color separation systems are not supported.
Inputs	2 x HDMI™2.0a (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)
DCI	DCI Compliant
Power requirements	Single Phase or Triple Phase 200-240V 25A
Power consumption	3.9kW (3W in Eco mode)
Noise level (typical at 25°C/77°F)	51dB(A)
Operating temperature	40°C / 104F Max. (at Sea Level)
Operating humidity	85% Max.
BTU per hour	12,500 BTU/h
Exhaust airflow	615 CFM
Dimensions (WxLxH)	760 x 1470 x 612 mm 29.92 x 57.54 x 24.09"
Weight	170kg / 375lbs
Warranty	Limited 3 years parts and labor Essential Care up to 5 years
Safety requirements	Class 1 Risk Group 3

Last updated: 27 Mar 2024

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Thor

The hammerwielding god of lightning, brings direct laser projection to the most exclusive homes for the first time.



- Cinema at Home Series
- Native 4K Resolution (4,096 x 2,160)
- 6P RGB Laser
- Up to 15,000 ANSI Lumens

The Thor platform represents the pinnacle of Barco Residential's projection portfolio.

Thor's perfectly designed, 6P RGB laser technology, 15,000 lumen output and hermetically sealed 4K DLP® engine, delivers reality altering levels of immersion for the largest home theatres.

Worlds first

Thor (and Thor+) are the world's only integrated laser 6P 4K 3D projection solutions 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 handbuilt, 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 single step of the process is overseen by specifically trained professionals. Moreover, the assembly of vital parts is performed by hand, guaranteeing ultimate quality at all stages of manufacture.

Product specifications

THOR

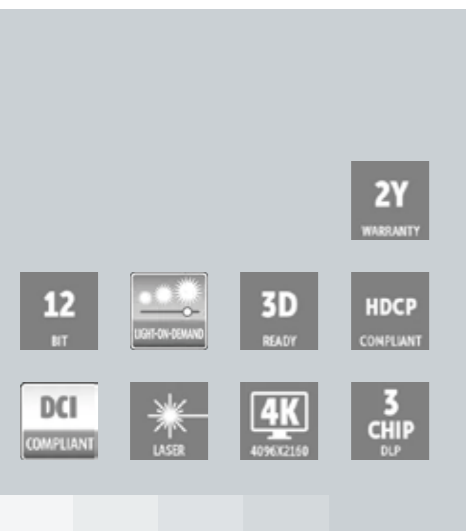
Power consumption	Projector (Full Laser Power): 3.5 kW (2D or Polarization 3D) 2.0 kW (Barco Laser3D - 6P) Chiller (Full Laser Power): 2.0 kW (2D or Polarization 3D) 1.6 kW (Barco Laser3D - 6P)
Noise level (typical at 25°C/77°F)	Projector (w/Chiller): 68 dB(A) - Max Projector (w/o Chiller): 52db(A)
Operating temperature	10 to 30 °C Max. (sea Level)
Operational humidity	75% Max. (projector and chiller)
BTU per hour	18,500 BTU/h
Airflow requirements	Air Inlet (from Rear w/Feet Down): TBC Exhaust (from Rear w/Feet Down): TBC
Exhaust airflow	TDB
Dimensions (WxLxH)	Projector: 742 x 1,446* x 706 mm (includes feet / excludes lens) 29.2 x 56.9 x 27.8 in. (includes feet / excludes lens) Chiller: 701 x 701 x 800 mm 27.6 x 27.6 x 31.5 in. * Excludes allowance for chiller hoses
Weight	Projector: 200 kg / ~440 lbs (excludes lens) Chiller: ~115 kg / ~250 lbs
Shipping Dimensions	1,780 x 1,320 x 1,020 mm excludes lens - packaged separately) 70.1 x 52.0 x 40.2 in. (excludes lens - packaged separately)
Shipping weight	307 kg / 677 lbs (excludes lens - packaged separately)
Certifications	CE; ETL/UL/FCC, CCC
Warranty	Limited 3 years parts and labor Extendable up to 5 years
Safety requirements	Class 1, Risk Group 3 * Firmware upgradable Please contact an authorized Barco representative for details

Last updated: 22 Jun 2023

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Thor+

The hammerwielding god of lightning, brings 6P RGB laser projection to the most exclusive homes for the first time.



- Cinema at Home Series
- Native 4K Resolution (4,096 x 2,160)
- 6P RGB Laser
- Up to 32,000 ANSI Lumens

The Thor platform represents the pinnacle of Barco Residential's projection portfolio.

Thor's perfectly designed, 6P RGB laser technology, 32,000 lumen output and hermetically sealed 4K DLP® engine, delivers reality altering levels of immersion for the largest home theatres.

World's most powerful residential projector

Thor+ is the world's most powerful residential projector with 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 handbuilt, 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 single step of the process is overseen by specifically trained professionals. Moreover, the assembly of vital parts is performed by hand, guaranteeing ultimate quality at all stages of manufacture.

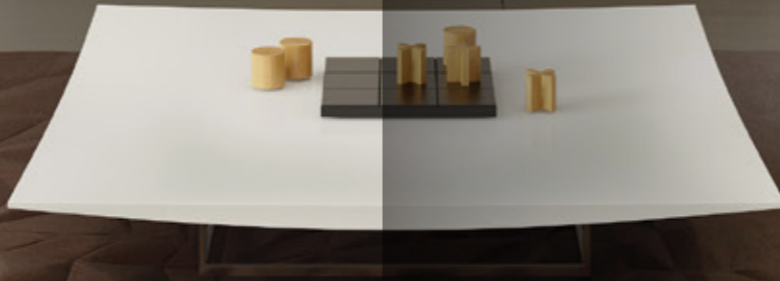
Product specifications

THOR+

Power consumption	Projector (Full Laser Power): 6.7 kW (2D or Polarization 3D) 3.6 kW (Barco Laser3D - 6P) Chillers (each) (Full Laser Power): 3.0 kW (2D or Polarization 3D) 2.5 kW (Barco Laser3D - 6P)
Noise level (typical at 25°C/77°F)	Projector (w/Chillers): 77dB(A) - Max fan speed (start up phase) 57dB(A) - Stable state Projector (w/o Chillers): 52db(A)
Operating temperature	10 to 30 °C Max. (sea Level)
Operational humidity	75% Max. (projector and chillers)
BTU per hour	32,150 BTU/h
Airflow requirements	Air Inlet (from Rear w/Feet Down): TBC Exhaust (from Rear w/Feet Down): TBC
Exhaust airflow	TDB
Dimensions (WxLxH)	Projector: 742 x 1,446* x 706 mm (includes feet / excludes lens) 29.2 x 56.9 x 27.8 in. (includes feet / excludes lens) Chillers (each): 701 x 701 x 800 mm 27.6 x 27.6 x 31.5 in. * Excludes allowance for chiller hoses
Weight	Projector: 235 kg / ~520lbs (excludes lens) 2 x Chillers (each): ~115 kg / ~250 lbs
Shipping Dimensions	TBC (excludes lens - packaged separately)
Shipping weight	TBC (excludes lens - packaged separately)
Standard accessories	TBC
Certifications	CE, ETL/UL/FCC, CCC
Warranty	Limited 3 years parts and labor Extendable up to 5 years
Safety requirements	Class 1, Risk Group 3
*	Firmware upgradable Please contact an authorized Barco representative for details

Last updated: 22 Jun 2023

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