

# Valkyrie Cinemascope

TruePix LED Series



The Vikings believed the Northern Lights in the sky were the reflections of the Valkyries' armor as they led the warriors to Odin. We see our Valkyrie as the solution that will lead customers to Barco, to enjoy a viewing experience that, up to now, was simply unavailable outside a private movie theatre.

Valkyrie is Barco Residential's most popular LED solution based on size and viewing distance. You would think 1.2 pixel pitch is big, but LED is about the correct viewing and about how the source is delivered from the content player to the display. Barco is always making sure the image is perfect. We have developed a completely new processor for our TruePix panels which together with our Valkyrie display reproduces a revolutionary viewing experience with an highly dynamic, yet very realistic image.



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# Valkyrie Cinemascope

## Key features

### Steadyview™

Steadyview is Barco's own algorithm to avoid the scanline effect that can be perceived as visual flicker in the image. With Barco's new Infinipix® gen2 image processing platform, we have created Steadyview™ to ensure an unmatched viewing experience to avoid any type of flicker.

-Because of Steadyview we can watch these walls for hours, same as the northernlight. These were developed for control rooms where you have to watch the walls for hours without getting eye fatigue.

### Risk Free Installation

Barco's revolutionary LED wall mounting structure neutralizes imperfections of the underlying wall surface, making sure you can install your seamless, smooth-looking wall in no time. The camera-guided module placement of TruePix ensures a seamless and dependable installation. To avoid damage during installation, Barco TruePix' guided module insertion ensures a fully contactless and risk-free installation. Moreover, TruePix has motorized module extraction, which allows you to stay in control of the extraction process. Barco TruePix is completely serviceable from the front and the back. Maintenance made easy

### Perfect Flatness

TruePix has no alignment issues and no bulging of the PCB's. Why is this important? Because in most rooms where a LED is used you might have ambient light that will reveal the seams of the modules. We get a perfect result without spending hours on tweaking the alignment. This is possible because of Barco's revolutionary automated manufacturing process, where this alignment is automated by Barco developed alignment machine with super tight tolerances.

### Smart Calibration

The Processing will automatically apply the correct color gamut and EOTF Curve to make sure the colors are represented correctly. It will do this for SDR and HDR content as TruePix supports a color gamut of DCI/P3

## Technical specifications

<b>Resolution</b>	5,280 x 2,160
<b>Pixel Pitch</b>	1.2
<b>Pixel per tile</b>	480 x 270 (HxV)
<b>Number of tiles</b>	88
<b>Brightness</b>	>600 Nits
<b>Internal processing</b>	23 bit
<b>Color depth</b>	16 bit (281 trillion colors)
<b>Contrast</b>	9,000:1
<b>Dimming</b>	0 - 100%
<b>Shaders</b>	No
<b>Refresh rate</b>	3,840 Hz
<b>Frame rate support</b>	24 / 25 / 29.97 / 30 / 47.95 / 48 / 50 / 59.94 / 60 / 100 / 119.88 / 120 / 144 Hz
<b>Brightness Uniformity</b>	>98%
<b>Hor. viewing angle</b>	160° +/-5°
<b>Vert. viewing angle</b>	160° +/-5°
<b>Control</b>	Infinipix® Gen2
<b>Control drivers</b>	TBC
<b>Dimensions (WxLxH)</b>	670.89 x 274.48 cm (264.11 x 108 inches)
<b>Weight per module</b>	8.2kg/tile (single PSU) 8.6 kg/tile (dual PSU)
<b>Total weight</b>	721.6kg (single PSU), 756.8 kg (dual PSU)
<b>Power requirements</b>	110-130V/200-240V, 50-60 Hz
<b>Power consumption</b>	704.8 W/m <sup>2</sup> (max) = total 12.98kW 221.5 W/m <sup>2</sup> (typ) = total 4.08kW less than 10 W/m <sup>2</sup> (standby) = less than 180W total
<b>BTU per hour</b>	2,643 BTU/h/m <sup>2</sup> (max) 1,306 BTU/h/m <sup>2</sup> (typ)
<b>Operating temperature</b>	-10°C to +40°C / 14°F to 104°F
<b>Operating humidity</b>	10% - 80%
<b>IP rating</b>	IP30
<b>HDR</b>	HLG / HDR10 supported
<b>Installation</b>	Self-leveling with surface tolerance compensation
<b>Serviceability</b>	Full front & full back service
<b>Module replacement</b>	Automated parallel motorized extraction
<b>Module placement</b>	Guided module placement
<b>Seam quality</b>	Guaranteed seamless
<b>Flatness - lay flat quality</b>	Guaranteed flatness
<b>Ergonomics</b>	SteadyView driver algorithm to reduce eye fatigue
<b>Certifications</b>	E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM
<b>Warranty</b>	3 years Can be extended up to 8 years