

BRELYON™

HEADSET-FREE IMMERSION



A Display Like No Other

A virtual 122" screen on your desk

The Brelyon Ultra Reality™ display is the first desktop monitor to offer massive panorama with monocular depth, which translates to prolonged eye comfort and gives a sense of immersion that emulates headsets.



FEATURES



Theater-Like Experience

Brelyon Ultra Reality™ enables an awe-inspiring, panoramic experience that fills 110° of your field of view, perfect for immersive entertainment applications like gaming and movies.

Plug-and-Play

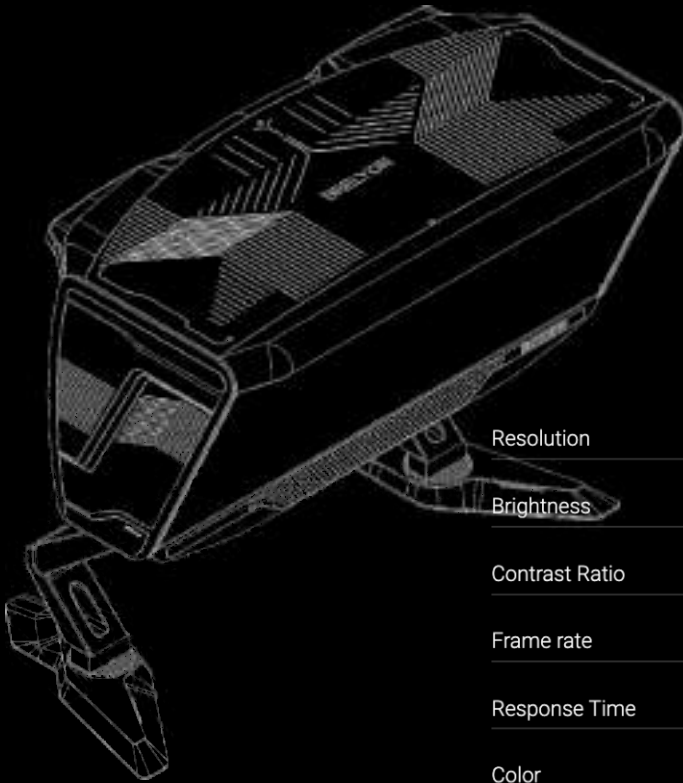
Brelyon Ultra Reality™ accepts HDMI and DisplayPort inputs, doesn't require any special software or content, and is compatible with existing software and operating systems.



Radical Performance

Brelyon Ultra Reality™ offers 122" of amplified 700+ nits brightness and 4K base resolution.

SPECIFICATIONS



Resolution	3840x1440
Brightness	700+ nits
Contrast Ratio	1:1000 with ambient light suppression
Frame rate	60Hz
Response Time	1ms
Color	DCI-P3 98% (CIE1976)
Color Depth (Number of Colors)	1.07B
Interface	HDMI 2.1/DisplayPort 1.4 fully backward compatible; no re-rendering needed
Image Size	122"
Field of View	110°
Depth Profile	1L [1.4-2.4m]
Depth Bit	N/A
Ray remapping technology	N/A
Amplification Coefficient \boxtimes	0.8
Aperture Size	30°
Weight	31lb (14kg)
Power Consumption	65 Watts
Monitor Mount	Included

APPLICATIONS

With a large field of view, massive virtual screen, and high-fidelity imagery presented with dynamic depth, Brelyon Ultra Reality™ opens the door to new possibilities for enterprise and prosumer applications. A compact and portable device for simulation and training, immersive vehicle teleoperation, and amplified visualizations for visual inspections are some of the immediate enterprise applications. Brelyon Ultra Reality™ also offers abundant visual real estate that can replace multi-monitor setups, or even headsets, for demanding applications like financial trading, cinematic video editing, metaverse experiences, and more.





Simulation & Training

Sink into comfort while you soar to new heights with Brelyon Ultra

Backed by industry leaders such as Lockheed Martin and LG Displays, Brelyon is on a mission to set a new trend in the simulation and training industry. The company's goals stretch far beyond realism, into flexibility, integrability and cost-effectiveness. A go-to solution that bridges the gap between classroom-grade and enterprise-grade simulators.

Value that goes beyond

Improve Training Speed: With Brelyon, any desktop space can be transformed into a simulator experience. You can run more trainees in parallel by using a batch of compact 30-inch virtual portals, thereby accelerating the building of currency and proficiency.

Extend User Engagement: Brelyon provides trainees with exciting, realistic, and comfortable simulated exercises, which leads to repeat usage and increased engagement.

Realism: The conformal depth profile offers a life-like experience to trainees, providing a sense of depth that is as close to reality as possible.

Drastically Easier to Integrate: No need for headsets, new content, or dark rooms for projections. Brelyon is compatible with all existing simulation software, making integration much easier.

Open Architecture for User Feedback: The solution provides real-time feedback on performance and progress, allowing trainers to monitor and make necessary adjustments.



Value beyond sense of presence

Perform Anywhere: Teleoperate anywhere with ease using a compact 30" virtual monitor instead of a 3x2 physical array. Fewer monitors mean less maintenance.

Eye-Friendly Design: Prolonged use is comfortable with Brelyon monocular depth profile.

Dependable Performance: Operate continuously without fail for a reliable experience.

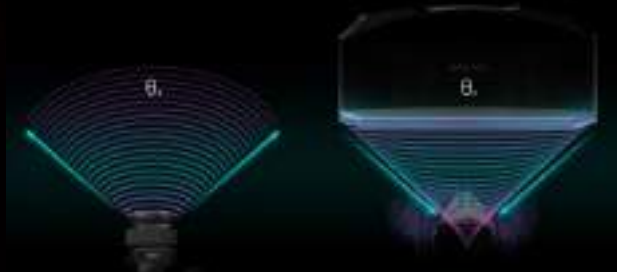
Seamless Integration: Integrate with ease into your kinematic rigs and teleop software.

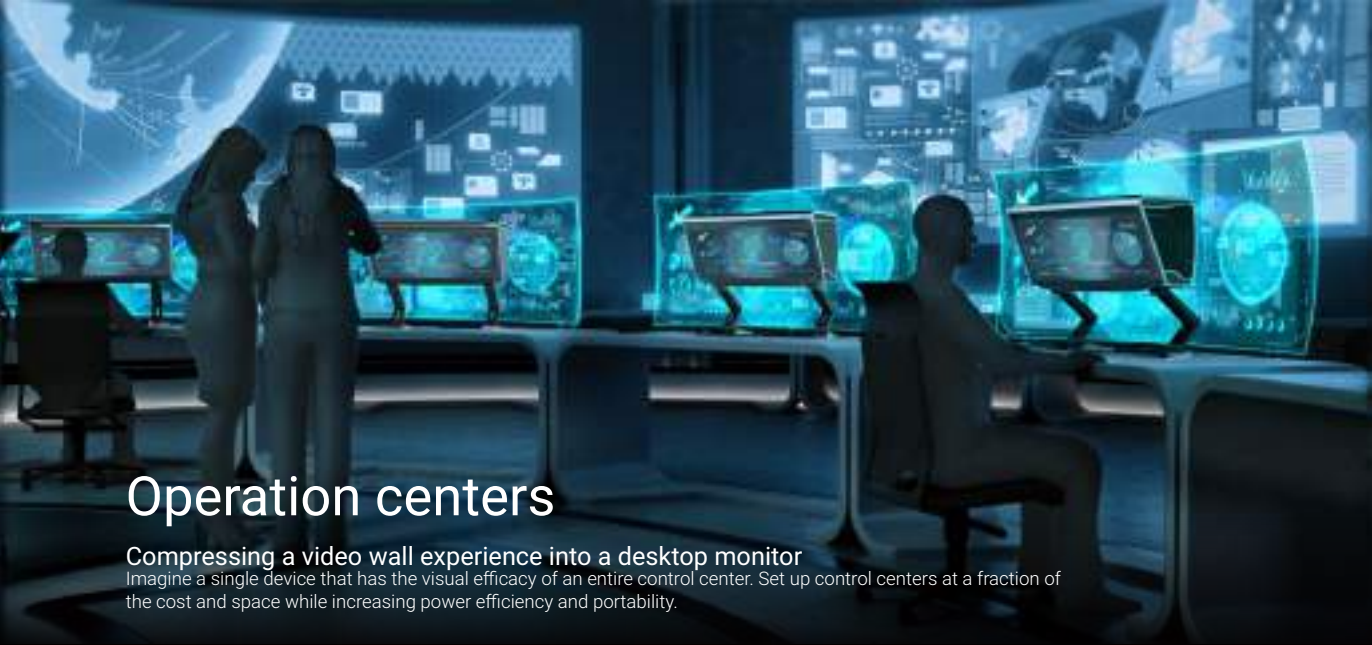
Enhanced Awareness: Customized a comprehensive view of your surroundings and visualize multi-sensory data with expansive panorama.

New possibilities in realism

Depth accuracy: The screen depth follows the curvature of scenery for environmental shots. This creates a perceptual cue that helps the operator feel as if he/she is there.

Angle accuracy: With a panoramic 110° field of view, the Brelyon display can be matched to your wide lens camera to provide realism via angle accuracy and perspective correctness. A true window-like experience.





Operation centers

Compressing a video wall experience into a desktop monitor

Imagine a single device that has the visual efficacy of an entire control center. Set up control centers at a fraction of the cost and space while increasing power efficiency and portability.

Value that ties space, time, and money

Resolution Customizability: Brelyon offers unparalleled pixel count and visual fidelity. Perfect for multi-channel inputs.

Fully Backward Compatible: Connect your existing SCADA (Supervisory Control and Data Acquisition) systems, Network Management Systems (NMS), SIEM (Security Information and Event Management) software, GIS (Geographic Information System) software, and Alarm Management Systems.

Save on Space: Upgrade to Brelyon and shrink your SOCs, NOCs and control centers while increasing your efficacy. This helps you save on office space.

Elevate Visual Awareness: Brelyon allows you to elevate operators' focus by bringing everything into a single portal. Easier to navigate data, and easier to see alerts.



Compact yet powerful

Declutter multi-monitors and reduce maintenance costs by switching to Brelyon.

To 8K and beyond! Customizable options available to deliver multi-channel visualizations for enterprise higher resolution applications.

360 privacy where it matters; Brelyon displays offer volumetric privacy by guiding rays of light to where they need to be perfect for protecting sensitive data.



Medical Visualization


Never miss a detail with the power of a 122" virtual display

Standing out in medical displays with massive virtual images that offer medical-grade image quality, optimized for both clarity and comfort. Unparalleled in size and brightness performance, Brelyon's 122" displays offer 6x higher visual-discerning fidelity compared to traditional solutions.

Doctors deserve better

Aged eye relaxation for better visual fidelity: Brelyon's wavefront engineering allows ciliary muscles of the eye to relax down by 1 diopter, making it easier on even the most farsighted and aged eyes.

Geometrical ambient light suppression: Black just got more black. Brelyon geometrical ambient light suppression technology allows dimming black further down while preserving the brightness. This helps to reduce ambient light sensitivity in dark radiology image review



Value that goes beyond pixels, nits, and bit count


Image Quality: 4K resolution, with 700+ nits of brightness with accurate colors in 122" of visual imagery.

DICOM Compliance: Compliant with Digital Imaging and Communications in Medicine (DICOM) standards.

Elevating Viewing Conditions: Medical displays must be designed to provide optimal viewing conditions, such as appropriate brightness levels, color temperature, and contrast. This helps ensure that images are displayed in a way that minimizes eye strain and fatigue for the viewer.

Connectivity: Connect to a wide range of imaging equipment, such as MRI, CT, and X-ray machines, work in environments you are familiar with – no training, no new software needed. Perfect for radiology and other medical procedures.

Accommodation for aged eyes: Reducing eye strain for long-time use by providing relaxed accommodation. With 1 diopter of added depth, even the most farsighted and aged eyes can see the images with better accuracy now.





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