



BRELYON

# XR COMMAND CENTERS. NO HEADGEAR.

## Effortless Access to Command & Control Visualization

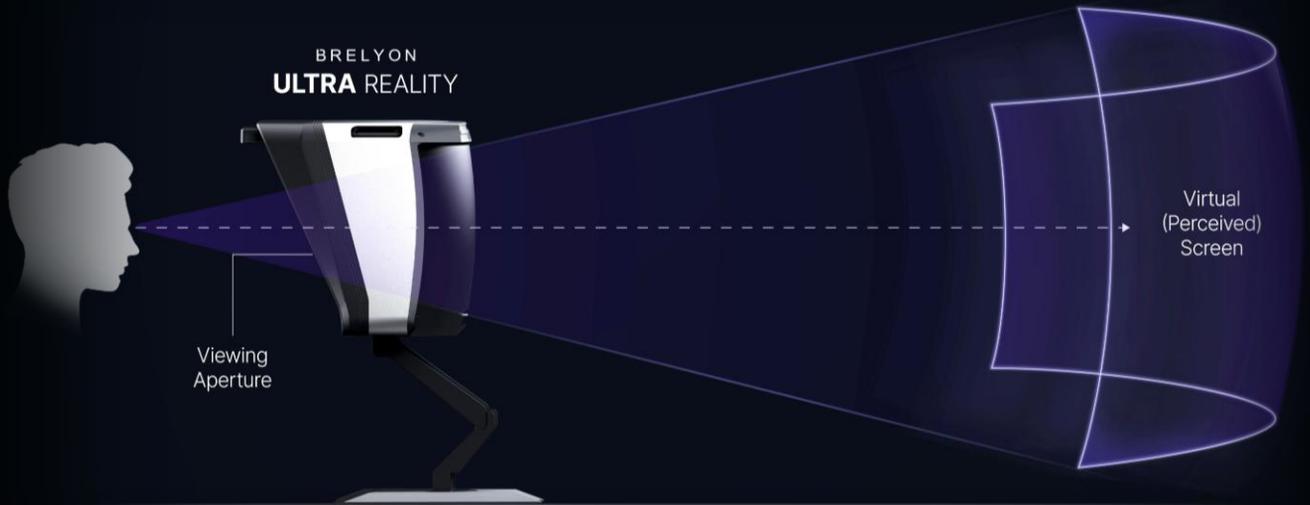
Transform your command centers with Brelyon Ultra Reality®, the headset-free virtual display technology that delivers unmatched situational awareness, efficiency, and flexibility. Replace six 24" monitors with a single, compact device through which you can view a ten-foot virtual screen.

### Enhanced Operator Stations

Empower your operators with Brelyon's enterprise-grade display solutions for control rooms. Integrate multiple data sources for superior situational awareness. Reduce information overload and enable faster, more informed decisions in high-pressure situations with an expansive visual space and intuitive interface.

### Streamlined Teleoperations

The optical depth and panorama provided by the Brelyon Ultra Reality® display meet your immersion needs, offering an angle-accurate, depth-accurate representation of remote environments. Feel like you're there without having to wear headgear for extended periods. Extend operator comfort without compromising display fidelity and immersion.



## PRODUCT FEATURES

### Reduced Footprint and SWaP

Minimize size, weight, and power requirements (20X reduction\*) for enhanced mobility and operational flexibility.

### Easy Integration

Backward compatibility with existing systems (HDMI or DisplayPort inputs) eliminates the need for new content, software, or infrastructure. As a modular upgrade, use these displays like any other desktop monitor.

### Unparalleled Comfort

Relax the eyes' ciliary muscles, reduce eye fatigue and strain, and improve effectiveness during extended hours of operation.

### Rapid Deployment

Decrease the resources required for deployment and maintenance of fixed and mobile control nodes, and reduce ramp-up time to operational status by 6X\*.

\* Compared to a 3x2 array of 24" monitors.

## KEY SPECIFICATIONS

<b>Resolution</b>	3840x1440 (4K)
<b>Brightness</b>	450-700 Nits
<b>Contrast Ratio</b>	1000:1 with ambient light suppression
<b>Refresh Rate</b>	60 Hz
<b>Response Time</b>	16ms
<b>Color</b>	DCI-P3 98% (CIE1976)
<b>Display Colors</b>	1.07B
<b>Image Size</b>	122"
<b>Field of View</b>	110°
<b>Depth Profile</b>	1.4-2.4 meters
<b>Aperture Size</b>	30"
<b>Weight</b>	31 lbs (14 kg)
<b>Power Consumption</b>	65 Watts

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# C2 & C2 ON-THE-MOVE

## Capability Gap

To retain both effectiveness and the agility and protection and to ensure survivability,\* Brelyon Ultra Reality® impacts three key goals of NGC2:

- Miniaturization
- Dispersion and redundancy
- Increased mobility

## Solution

Brelyon Ultra Reality® may be used for command post constellations (CPCs), offering:

- Better visualization method to access interoperable data while reducing SWaP and cognitive load.
- Multimonitor-in-a-box capability (single 30" display to replace 3x2 array of 24" monitors).
- Improved eye comfort over prolonged use.

# IN-VEHICLE TACTICAL DISPLAY

## Capability Gap

There are fundamental limitations in scaling situational awareness (SA) capabilities:

- Legacy displays are a bottleneck for harnessing\*\* the increasing amounts of sensory data.
- Increased eye/mental fatigue & cognitive workload for warfighter with more data being accessed.

## Solution

Brelyon Ultra Reality® Mini, the smaller version of Brelyon Ultra Reality®, features a 40" virtual screen through a 14" viewing window, offering:

- Enhanced situational awareness via amplified indirect vision.
- Reduced SWaP.
- Improved eye comfort over prolonged use.

\* Lt Gen Beagle, Brig Gen Slider, Lt Col Arrol, US Army., <https://www.armyupress.army.mil/Journals/Military-Review/English-Edition-Archives/May-June-2023/Graveyard-of-Command-Posts/>, May-June 2023.

\*\* S.Magnuson. Nat. Def., <https://tinyurl.com/natdefmag101123>, 10/11/23.

