



G B V I

High-performance projector optical edge-blending solutions
Excellent performance for all scene content
Dedicated integrator support
For the most demanding simulation & training environments

Extensive experience in high-performance projection displays:

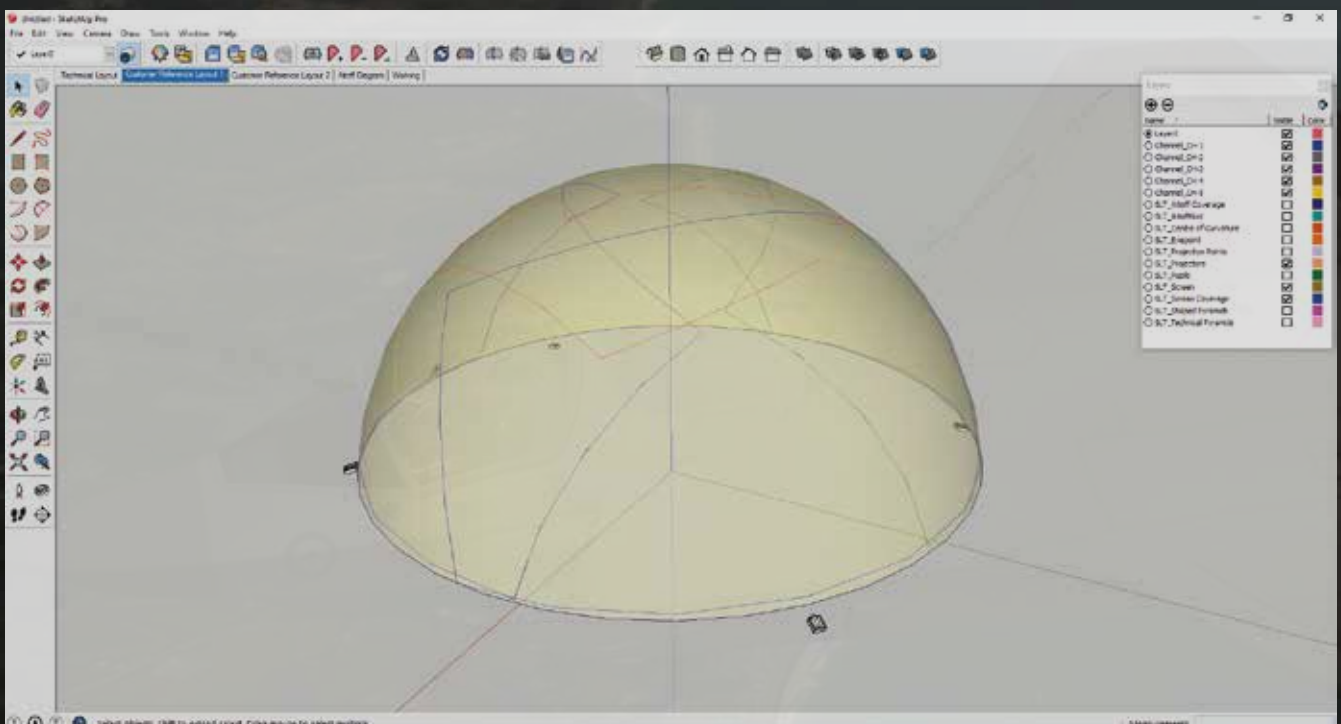
- Rotary and fixed-wing simulation
- Land training systems
- Day, night & NVG OTW displays
- Fast jet simulators
- Ground vehicles
- Collimated visuals

The GBvi team has collective experience of more than 70 years in the field of displays for simulation and training; in aviation, terrestrial and marine applications and in defence and commercial sectors. In particular, we have extensive background in technologies and applications that maximise display dynamic range, enabling continuous operation through bright daylight and dark night scenarios and in all simulated weather conditions.

We are a partner to simulation systems designers, engineers and display system integrators – helping to overcome display challenges of complex projection systems.

Our Chronos optical blending technologies enable display system designers and integrators to overcome the hurdles faced when using digital projectors in dark environments, namely, channel overlap visibility and compromised display system contrast and dynamic range resulting from projector light leakage.

Our continuously refined design tools and processes enable a consistent yet highly customised approach, working closely with our customers and applying acute attention to detail to help make the display system the best it can be, at lowest risk to the program.





Uniform black level is critical to simulated night and NVG training environments. GBvi Chronos blending solutions allow system integrators to maintain an even black level across multi-channel projection displays, realising the maximum dynamic range and enhancing the perception of life-like imagery. The result is an absence of any residual light distractions or artefacts that would otherwise be found in digitally blended displays.



Chronos in its many forms, is our primary optical blending solution for multi-channel projected displays. We have extensive experience in display systems design and integration, and have invested heavily in developing design tools, algorithms and alignment processes for:

- Fully custom optical blending solutions.
- Optimised blend performance to enhance display uniformity throughout the field-of-view and for bright, dark and wide dynamic range content.
- High-performance blending for all immersive displays, from simple panoramas through complex multi-level projection arrays, including domes and partial domes, front and rear projection and collimated displays.
- Fast design, manufacture and installation.
- Compatible with a wide range of projectors, including lamp, LED & laser-phosphor illuminated and whether stereo 3D or not.
- We work closely with projector manufacturers, who provide loan units for analysis and test, so we can de-risk programs using previously un-blended projector types.
- 'Right-first-time' philosophy - we strive to achieve this on every system, through careful analysis and guidance for your installations.
- Retrofit systems, where hard display data are unavailable, are enabled for Chronos using tools to ease data capture.
- On-site support services are offered for initial installations and knowledge transfer.



Optical blending made easy for display system integrators
High performance blending with options to blend almost any projector
Product focused and independent – supporting display system integrators
We succeed where you do – so we provide advice and support on every project

We design and build multi-channel optical blending solutions for challenging projection environments, with no limit to display size, screen shape or projector count.

Visual innovation is at the core of our business, and to be innovative means to be creative. We continually prototype new optical blending technologies and often work with unique display setups that lead us to devise increasingly innovative approaches to ensure display perfection.

Contact us to discover how Chronos can help you realise the best performance from your display system.



**Simplifying
high-quality blending**

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