



G B V I

**Specialist high performance projector edge-blending innovation
Uncompromised quality
Dedicated integrator support
For the most demanding & challenging simulation & training environments**

Extensive experience in high-performance projection displays:

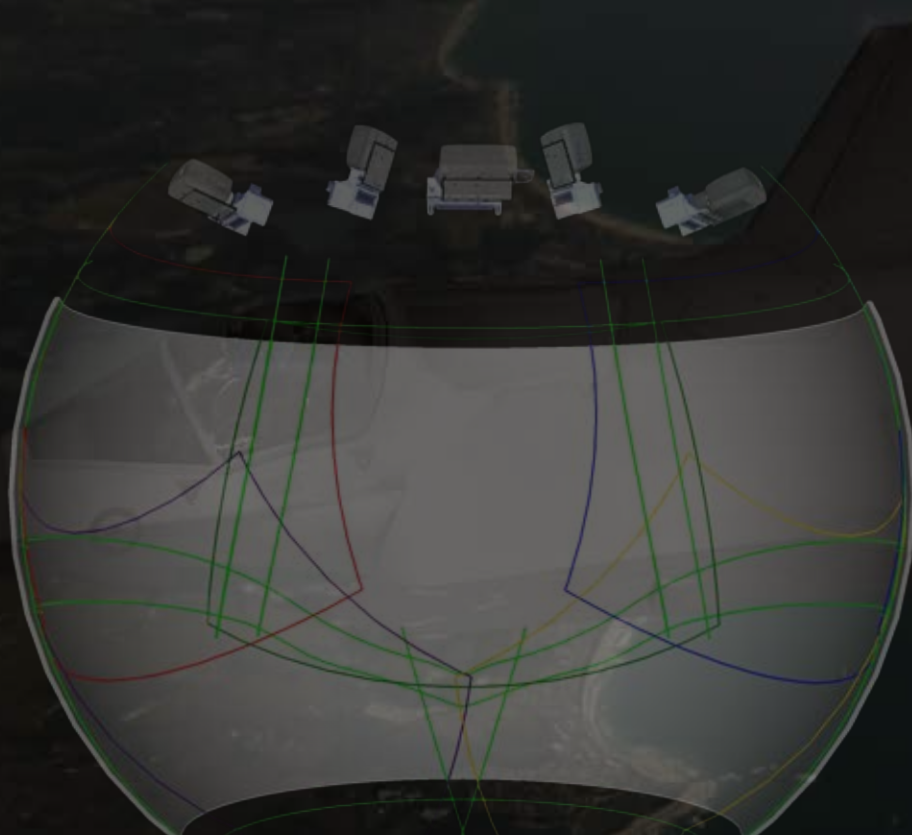
- Rotary and fixed-wing simulation
- Land training systems
- Day, night & NVG OTW displays
- Fast jet simulators
- Ground vehicles
- Collimated visuals

The GBvi team has collective experience of more than 35 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 inferior display system contrast and dynamic range resulting from projector light leakage.

Our approach to each project is unique and involves a highly customised process, working closely with our customers with acute attention to detail to help make the display system the best it can be.





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 and Chronos Active are our primary optical blending solutions 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.
- Accurate data validation and display design modelling.
- Optimised blend performance to enhance display uniformity throughout the field-of-view and for bright, dark and wide dynamic range content.
- Compatibility with most projectors, whether lamp, LED or laser-phosphor illuminated and whether stereo 3D or not.
- Fast design, manufacture and installation.
- Application with simple single-level and complex multi-level arrays, domes and partial domes, front and rear projection and collimated displays.





No longer inaccurate, inconsistent & difficult
No longer restricted by blend design & performance compromises
No more need for forced dual-mode optical + digital blending configurations

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.



**Changing the way you
see optical blending**

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