



## Display++

### Engineered for scientific applications

Display++ makes it simple to display calibrated visual stimuli with precision timing, and provides robust and reliable synchronisation of the stimulus presentation with external data collection equipment, at an affordable price.

Configurable contrast resolution combined with fast panel drive rate, custom lag free electronics, and a strobing, scanning LED backlight are some of the tools that make Display++ ideal for cognitive, psychophysical and neurophysiological investigations of vision and the brain.

Designed  
for Science  
by CRS

[www.crsLtd.com/display++](http://www.crsLtd.com/display++)

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## The Ultimate Display for Vision Science?

Over the last 20 years, our customers have frequently asked us to create 'the ultimate display', and we've heard dozens of opinions on what this would comprise:

*Super high refresh rate, fast response, huge colour gamut, immersive field of view, excellent spatial uniformity & additivity, high contrast, extreme brightness, linear light output, stability, and perfect stimulus reproduction...*

Different applications place importance on different aspects of the stimulus, and the ultimate display would satisfy them all. The dream is alive, but reality, of course, is limited by both technology and budgets.

We've engineered Display++ to the best possible specification, then made it configurable, so that you can choose how to trade off the available bandwidth, producing the optimum display for your research, at a price that won't bust your grant.

The ultimate display is science fiction. Display++ is a real solution, packed with practical features for rigorous research.

### → Trusted CRS technology

Cambridge Research Systems ViSaGe and Bits# visual stimulators are ubiquitous in vision labs all over the world, trusted for precise control of colour, contrast and timing.

Display++ integrates all the benefits of our proven technology with a display device designed from the ground up for science. It's as easy to use as a normal computer monitor, and compatible with community tools like Psychtoolbox and PsychoPy, and commercial tools like Presentation and Psykinematix, or your own software.

As always, we are transparent about the advantages and limitations of the technology, so you can understand which features really affect the quality of your stimulus. There are no secrets to Cambridge Research Systems' products - just great engineering, which we are happy to explain.

### Why choose Display++?

Visit our website to learn more about how Display++ is engineered for science:

- Detailed specification
- Transparent explanation of how it works
- The problems with general purpose displays
- Built on 20+ years of proven CRS technology
- Frequently Asked Questions

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### → Fully loaded specification

- High quality 32" 1920x1080 IPS LCD
- 120Hz panel drive
- 10-bit RGB native, configurable up to 16-bit using temporal dithering algorithms
- Real time calibration ensures accurate luminance, regardless of the effects of warm up and ageing
- Hardware gamma correction tables and CRS colour management system ensure accurate colour reproduction over the entire gamut
- Light output is synchronous and lag-free
- Strobing, scanning backlight to minimise transition artifact
- Contrast ratio 1400:1
- 5ms grey-to-grey response time
- Multiple synchronous TTL trigger outputs
- 2 optional stereo modes: alternate frame with active shutter glasses, or flicker free with passive FPR glasses
- Optional integrated IR touchscreen
- Optional integrated synchronous analogue I/O
- Integrates with CRS audio, eye tracking and behavioral response devices, and compatible with solutions from other vendors.

### → Sensibly priced - from £5250

Cambridge Research Systems

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