

ColorBurst

Handheld Ganzfeld Stimulator

"Ideal for Pediatric and Operating Room testing"

Features

Advanced flash capabilities

- ColorBurst™ has a *>10 billion-to-1* luminance range
- Flash durations of nanoseconds to minutes
- Any color background from red, green & blue LEDs

Easy to use, ultimate performance

- Auto calibration
- Buttons on handle control testing
- User programmable arbitrary waveforms with 1 ms resolution provide full control of luminance and color

Applications

- Pediatric patients
- Operating room
- Disease diagnostics and monitoring
- Research and development
- Stem cell and genetic research
- Drug discovery and screening

Specifications

Flash

Any color flash: from red, green and blue LEDs

Proprietary CIE compensation yields ultra-stable luminance & color output

Maximum white flash $> 40 \text{ cd}\cdot\text{s}/\text{m}^2$ ($>10\times$ ISCEV standard flash)

>10 billion-to-1 flash range: 10^{-6} to $40 \text{ cd}\cdot\text{s}/\text{m}^2$

Flash duration adjustable from nanoseconds to minutes

On/off flashes and waveforms including ramp, sine, exponential, and arbitrary wavetable

Background illumination

Any color background (from red, green, and blue LEDs)

Low dim, dim and bright LED sets produce 6 order-of-magnitude background luminance range

Luminance linearity $<5\%$ deviation over entire range

Calibrated luminance output in cd/m^2

3 Red fixation LEDs with adjustable intensity

Calibrated in Scotopic and Photopic luminance ranges

Colors selectable using standard CIE coordinates or color picker

Color wavelengths Red 660 nm, Green 520 nm, Blue 465 nm



Industry leading protocols

- Full ISCEV standards (6 tests)
- Long duration flashes
- Dark-adapted 30.0 ERG
- Photopic negative response
- Dark-adapted long wavelength
- Light-adapted luminance-response series
- Saturated a-wave series
- Double flash ERG
- Direct current ERG
- Flash VEP
- C-wave
- Uniform field PERG

Dimensions

Sphere diameter	3.5 inches (89 mm)
Viewport diameter	2.15 inches (55 mm)
Total height	10.5 inches (267 mm)
Weight	1.5 lbs (0.7 kg) without stand

ColorBurst ordering information

ColorBurst Model # D213

Optional accessories D180 ColorBurst stand

Available as an option with the following systems:

- Diagnosys *E³* desktop systems
- Diagnosys *Profile* cart-based systems

www.diagnosysllc.com

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