# ColorBurst
## Handheld Ganzfeld Stimulator

**diagnosys**
*leading the wave*

### *"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

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|---|
| Any color flash: from red, green and blue LEDs |
| Proprietary CIE compensation yields ultra-stable luminance & color output |
| Maximum white flash > 40 cd·s/m$^2$ (>10x ISCEV standard flash) |
| >10 billion-to-1 flash range: $10^{-6}$ to 40 cd·s/m$^2$ |
| Flash duration adjustable from nanoseconds to minutes |
| On/off flashes and waveforms including ramp, sine, exponential, and arbitrary wavetable |

### Background illumination

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| 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

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|---|---|
| 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

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|---|---|
| ColorBurst Model # | D213 |
| Optional accessories | D180 ColorBurst stand |

# Available as an option with the following systems:

- Diagnosys $E^3$ desktop systems
- Diagnosys *Profile* cart-based systems