Imatest Stray Light LED Source

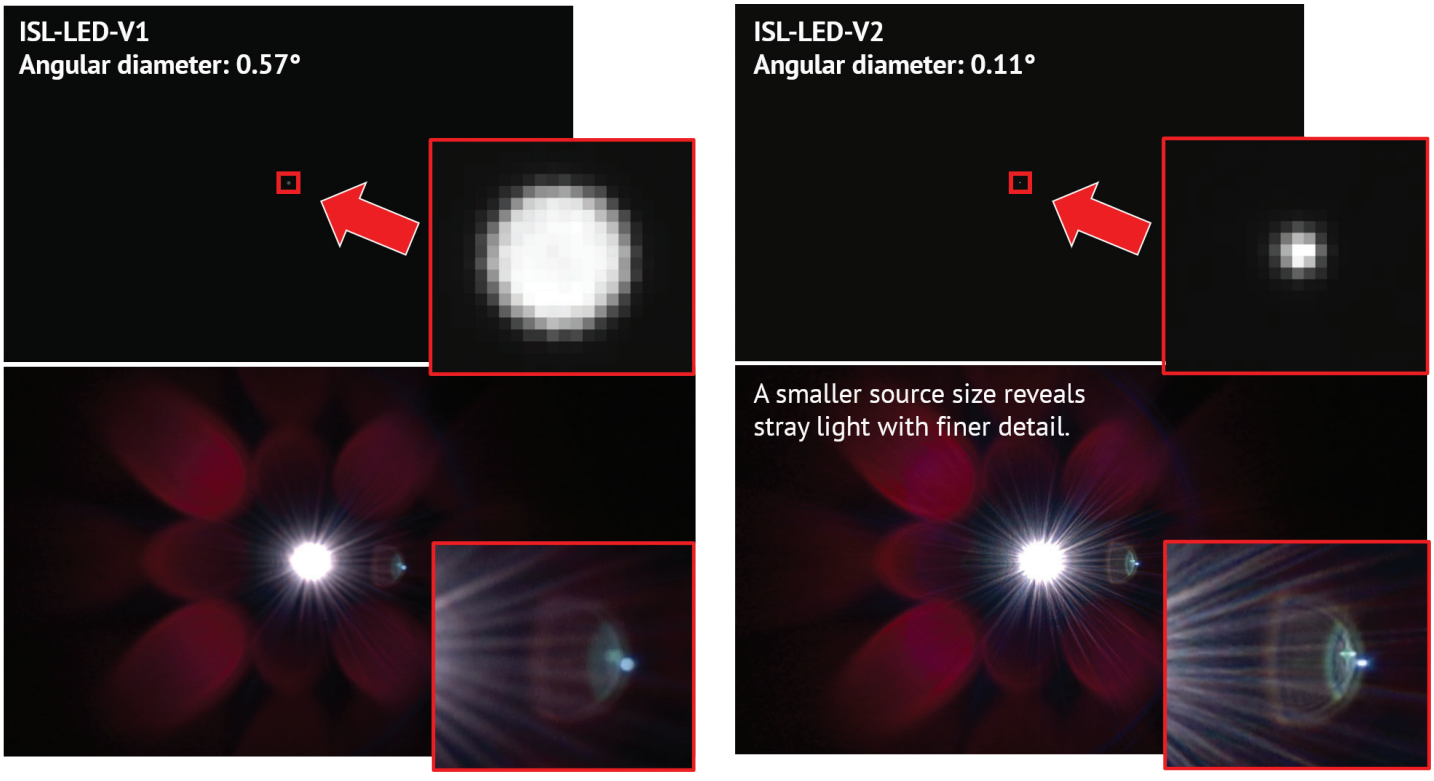
Visible or NIR collimated light source for characterizing stray light (flare)

Why Choose the Imatest Stray Light LED Source?

The Imatest Stray Light LED Source (V2) is specifically designed for characterization and testing of stray light (flare) in cameras. It projects an image of a small point-like source as a uniform, collimated beam of light. When imaged by a camera, the saturated image of the source produces stray light that can be visually inspected or analyzed using Imatest stray light analysis software. Available in visible (5700K White) and NIR (850nm, 940nm) spectra.

Imatest Stray Light LED Source Features

- ✓ Small source angular size for producing detailed, high resolution images of stray light
- ✓ Collimating lens is underfilled with light to ahieve low internal reflections (no halo)
- ✓ Adjustable brightness to accommodate a wide variety of sensors
- ✓ Adjustable lens focus, allowing for both collimated or diverging beams
- ✓ Includes constant current LED driver for powering LED; TEC & fan powered by AC adapters



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Imatest Stray Light Source Specifications

Specifications	Details
Light Source Dimensions:	204mm x 94 mm x 75 mm (8.03" x 3.7" x 2.95")
Programmable LED Driver Dimensions:	93.2mm x 52.5mm x 27 mm (3.67" x 2.07" x 1.06")
Weight:	Light Source: 2.3 Kg (5 lbs) | LED Driver: 70 g (0.15 lbs)
Projected Point Image Angular Diameter:	0.11°
Beam Diameter:	Collimated: ~25mm uniform beam diameter within 1 meter Max divergence: ~50 mm at 1 meter test distance
Minumum Beam Divergence:	Adjustable collimation/focus down to ~0.055° (half divergence angle)
Safe Operating (S.O.) Voltage & Current:	AC Adapter (Fan): 11.85V, 0.85A | AC Adapter (TEC): 5V, 5A
S.O. Voltage & Current (LEDs):	White: 3.16V, 1.25A | 940nm: 2.95V, 1.0A | 850nm: 3.25V, 1.0A
S.O. Beam Intensity (White LED, 5700K):	Illuminance: ~300 LUX | Irradiance (380-780nm): ~1.3 W/m^2
S.O. Beam Intensity (NIR LED, 850nm):	Irradiance (750-950nm: ~1.4 W/m^2
S.O. Beam Intensity (NIR LED, 940nm):	Irradiance: (800-1000nm): ~1.4 W/m^2
Design Testing Distance:	Up to 1 meter
Programmable LED Driver:	Constant Current LED Driver with USB 2.0 Interface