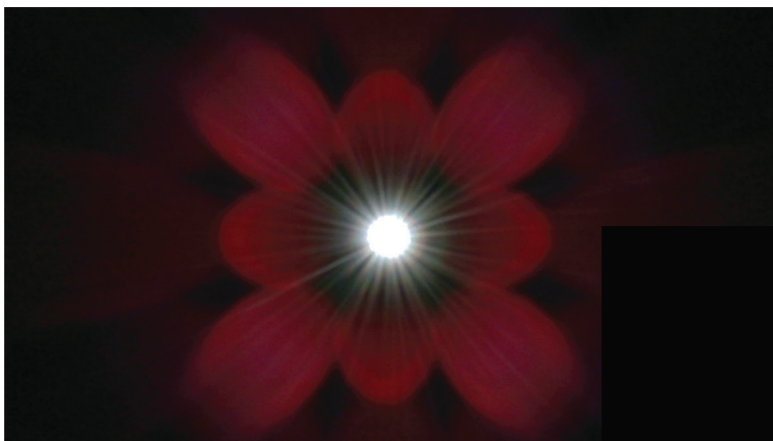# Imatest Stray LED Source

Visible, collimated light source for characterizing stray light (flare)

## Why Choose the Imatest Stray Light LED Source?

The Imatest Stray Light LED Source is an ideal component specifically designed for stray light characterization and testing. As experts in stray light solutions, our engineers have tested multiple configurations and types of sources to determine the best option.

Imatest Stray Light LED Source Features

- ✓ Projects a small, bright point-like source as a uniform collimated beam for controlled testing
- ✓ Designed for low internal reflections (no halo) by intentionally underfilling the collimating lens with light
- ✓ Small angular diameter similar to the sun allows for detailed stray light characterization
- ✓ Adjustable brightness to accommodate a wide variety of sensors
- ✓ Large beam diameter to overfill the front of the camera device
- ✓ Compact source and driver size for convenient, benchtop testing
- ✓ Configurable for mounting on the IMTS, BTS, or metric breadboards

*Saturated image of the source showing high frequency stray light, similar to that from the Sun.*

The unsaturated direct image of the light source from an on-axis reference image
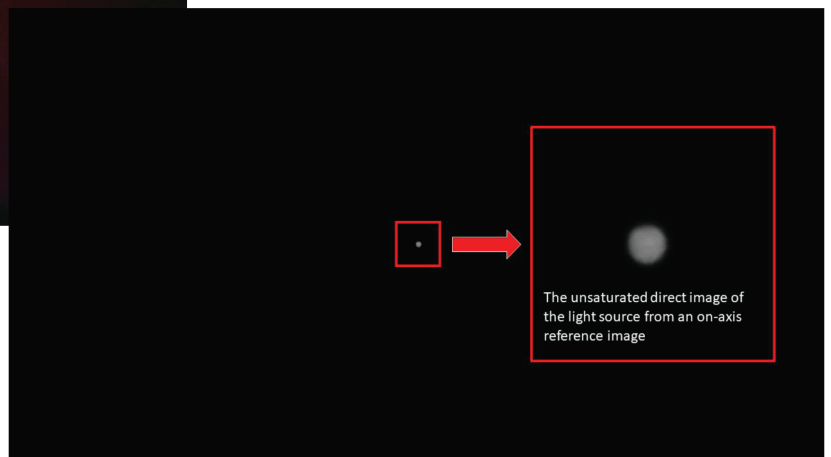
Unsaturated reference image of the source revealing it to be a small point.
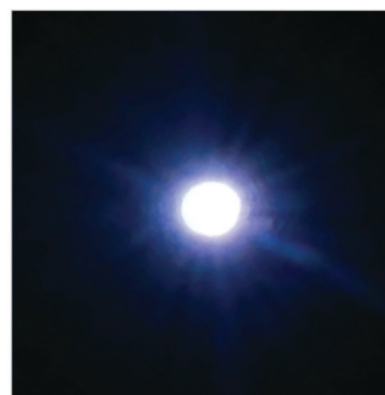
![imatest ®]

Imatest Stray Light Source Specifications

Specifications	Details
Dimensions:	150 mm x 75 mm x 84.5 mm (5.91" x 2.95" x 3.33")
Weight:	2.1 Kg (4.6 lbs)
Control Interface:	USB 2.0 - Includes upSERIES® Software
Supported Drivers:	LabVIEW®, CVI, C, C++, and C# Programming Environments
Spectrum:	Visible (3000K)
Angular Diameter:	0.57º
Divergence Angle:	Adjustable collimation with minimum half divergence angle of 0.29º
Beam Diameter:	30 mm (up to 50 mm)
Light Intensity:	Up to 2000+ lux
Design Testing Distance:	Up to 1 m
LED Driver Output & Voltage:	1.2 A	8.0 V
Power Supply:	Input Voltage: 100-240 V AC	Output: 12 V / 4 A
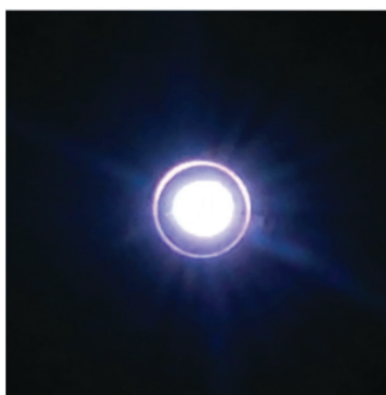
Typical Collimated Light Source

Imatest Stray Light Source