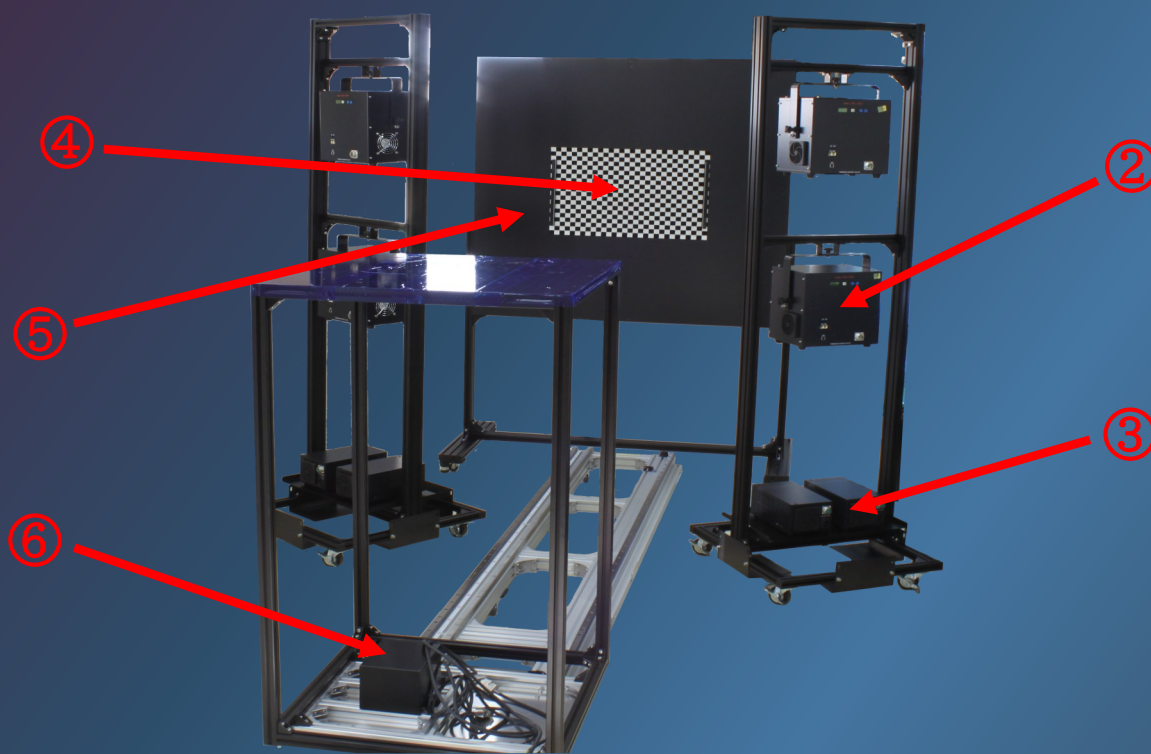


Required equipment for ToF/LIDAR evaluation system

ToF/LIDAR evaluation system is composed of NIR light sources, chart stand, movable stage and darkroom. Basically wavelength range typically used for ToF is near-infrared band, such as 850nm or 940nm.



Compositions of ToF/Lidar evaluation system

No.	Compositions	Contents
①	Darkroom	Special dark curtain to prevent IR light not to be diffused.
②	NIR illumination devices SOL-900-04IR8594 (850nm, 940nm)	Use NIR LEDs irradiating illumination to illuminate chart. Irradiation intensity of each wavelength is equivalent to AM1.5G
③	Light stand	A stand for fixing reflective chart.
④	Reflective Checkered pattern chart	A chart of an image is A3 size <i>Please consult us about which pattern is preferable.</i>
⑤	Chart stand	Fixing stand of a reflecting chart
⑥	Measured object stand Electric-powered slide rail (active range: 4~10m)	Moveable object stand. Easy to change a distance between a chart and an measured object with the electrical-powered slide rail.

Various reflective charts available.

A4, A3, 300, 500, 600, 1000 size (only for checkered pattern: up to 900) for reflectance of 850, 905, 940, 1550nm.

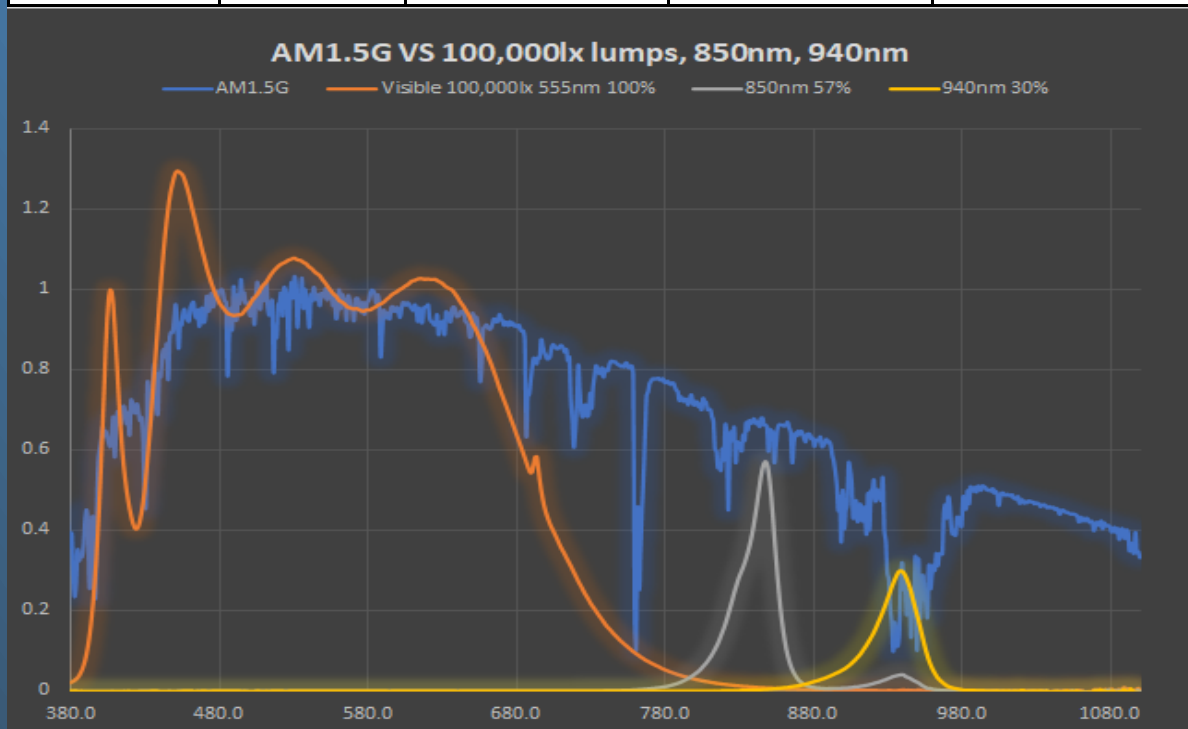
*** Please consult us for detailed composing contents and specifications.**

Relations about intensity between visible and NIR band

NIR illuminations are independently controlled by each wavelength and adjustable for your desired Intensity balance.

The below graph shows that rates of IR intensities at the peak based on AM1.5G.

Wavelength	AM1.5G	Visible band 555nm	850nm	940nm
Rate	100 [%]	100 [%] = Standard	About 57 [%]	About 30 [%]



SOL-900-04IR85/94

Using multiple illuminations to reduce unevenness of intensity.

Four illumination devices of SOL-900-04IR85/94(850nm/940nm: 2 devices each) can irradiate equivalent illuminance to 100,000lx.

Using 940nm for all 4 illumination devices can irradiate illuminance over 100,000lx.

