

Sherpa Eye

Light Spectrum/Photometer



Sherpa Space

Sherpa Eye is a light sensor that measures the spectrum and intensity of the light source in real-time. AI-powered to identify wavelengths and luminosities that are lacking to support customized light source supply.

Optical Environmental Monitoring Solution



Sherpa Eye is an optical sensor that measures the spectrum and intensity of a light source in real time. AI-based solar/artificial light recognition and analysis using Sherpa Eye enables precise control of the wavelength/light required for crop growth. Plants respond to visible light within the spectrum range (350 to 800 nm) used for photosynthesis. The front of the sensor is waterproof and measures Photosynthetic Photon Flux Density (PPFD). The unit of measure is $\mu\text{mol m}^{-2} \text{s}^{-1}$. PPFD can be measured not only in the sun but also in light sources such as light bulbs. Ideal for photosynthesis and primary product exploration, it can be used in agricultural and environmental sciences.

Optical Environmental Monitoring Solution

We developed an entry-level optical sensor to solve the reliability and high price problem of the existing optical sensor device.



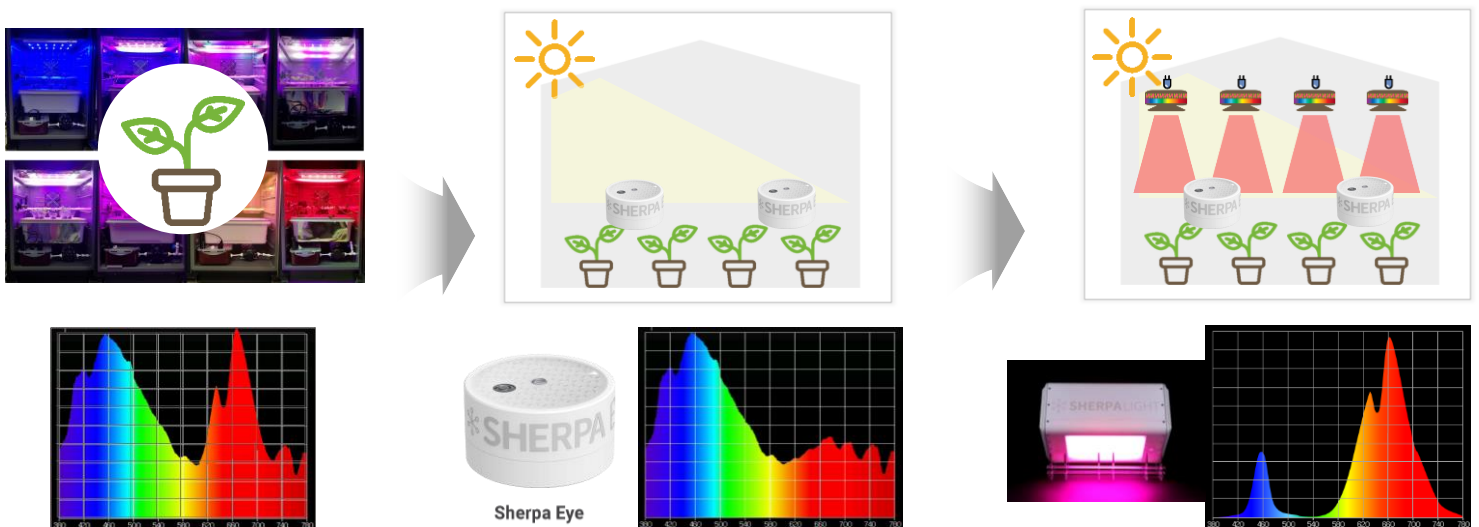
Optical Environmental Monitoring Solution

Precise wavelength control through sunlight/artificial light recognition and analysis

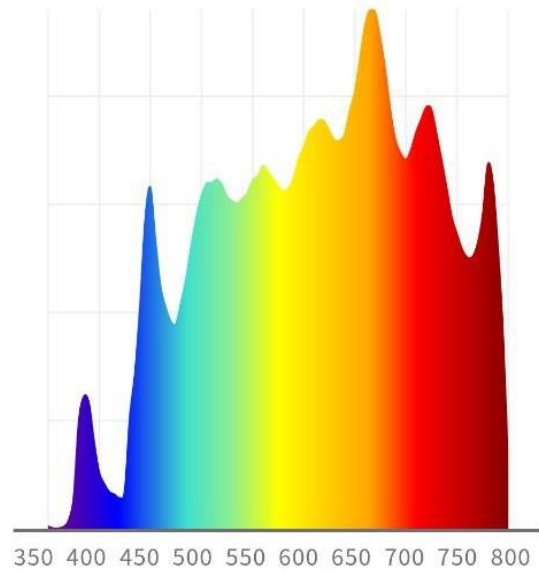


Precise Control of Light Source

Automated light tuning of integrated Sherpa light based on real-time light analysis to optimize grow.



Specifications



1	Model	Sherpa Eye
2	Product Technical Features	Measures the current intensity and wavelength of light in real-time and identify insufficient wavelength to optimize grow
3	Diameter	52mm
4	height	26mm
5	weight	1kg
6	material	ABS/PC
7	electric power	5W
8	Input voltage	100~240VAC
9	Measurable wavelength range	350nm~800nm
10	Resolution	10nm~40nm