

Light Source Series

Stable wideband light sources for UV, visible, and NIR measurements

The Evolve Sensing Light Source Series provides stable, wide-band spectral output for UV, visible, and near-infrared measurements. Designed for transmittance and absorbance applications, the series includes balanced, halogen, deuterium-halogen, deuterium, and wideband light sources to support a variety of spectral measurement needs. Models are suited for scientific research and development, production-line testing, and quality control applications, with select models offering external I/O, shutter, and software control for integration with spectrometers and measurement systems.



APPLICATIONS

- Transmittance measurements
- Absorbance measurements
- UV, visible, and NIR spectroscopy
- Scientific research and development
- Production-line testing
- Quality control

KEY PERFORMANCE

Spectral Coverage: 185–2500 nm (*model dependent*)

Light Source Types: Balance, Halogen, Deuterium-Halogen, Deuterium, Wideband

Stability: As low as 0.15% (*model dependent*)

Lamp Life: Up to 30,000 hours (*model dependent*)

Control: Manual and/or software control (*model dependent*)

External Control: GPIO with SpectraSmart / SDK support (*select models*)

Light Source Series Specifications

	LS-BA	LS-HA	LS-DH-4	LS-D2	LS-WB
Light Source Type	Balance	Halogen	Deuterium-Halogen	Deuterium	Wideband
Wavelength Range		350–2500 nm	D2: 185–400 nm; HAL: 400–2500 nm	185–400 nm	400–1000 nm
Stability	-	0.5%	0.15%		-
Drift	-	<0.3%/hour	<0.25%/hour	<±0.25%	-
Lamp Life	10,000 hr	10,000 hr	D2: >1,000 hr; HAL: >2,000 hr	1,500 hr @ 230 nm	30,000 hr
Warm-Up	-	0.5 hr	-	30 sec	15 min
Control	Potentiometer; SpectraSmart / SDK on/off	-	Manual / SpectraSmart / SDK / GPIO		Manual / GPIO / SpectraSmart / SDK; PWM
AC Input	100–240 VAC	-	100–240 VAC		