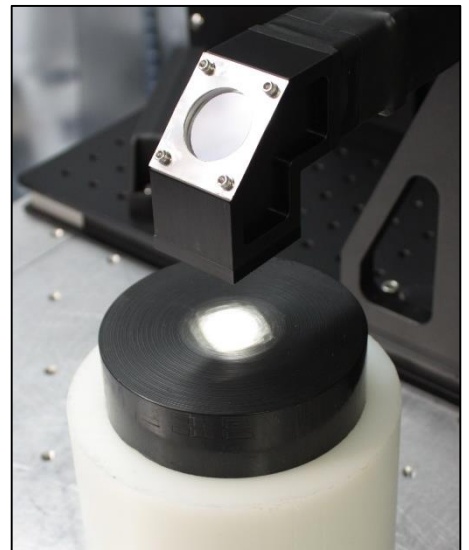


# SOLAR SIMULATOR

## Multi-junction, Programmable

INO developed a high-end solar simulator that uses a programmable spectrometer to optimize the spectral content for your application. This programmability allows the system to be tuned between 400-1800 nm with a spectral resolution below 5.5%. Contrary to standard systems, users can easily select multiple narrow spectral bands simultaneously, and the spectral content can be modulated in amplitude up to 20 kHz in intensity. Its high power Xenon lamp provides 1 Sun of output power. This system is ideal for research and manufacturing of multi-junction photovoltaic (PV) cells.

### INO Solar Simulator



### Features

- High flexibility due to the system's programmability
- Wide spectral band
- Multiple bands can be selected at the same time

### Applications

- R&D for multi-junction PV cells applications

**R&D CONTRACTS – PROTOTYPING – PREPRODUCTION  
SHORT-RUN PRODUCTION – TECHNOLOGY TRANSFER**



# SOLAR SIMULATOR

Multi-junction, Programmable

## Main Specifications

Requirement	Value
Power Density	> 100mW / cm <sup>2</sup> (1 Sun)
Output Beam Size	1 cm x 1 cm
Back Working Distance	1 cm
Spectral Range	400 – 1800 nm
Spectral Resolution	< 5.5%
Output Modulation	Up to 20 kHz
Temporal Stability	2%
Operating Temperature	20 +/- 5 deg C
Storage Temperature	-40 / + 55 deg C
Beam Divergence	12 degrees
Beam Uniformity	+/- 5%
Class	ABA

## Performances

