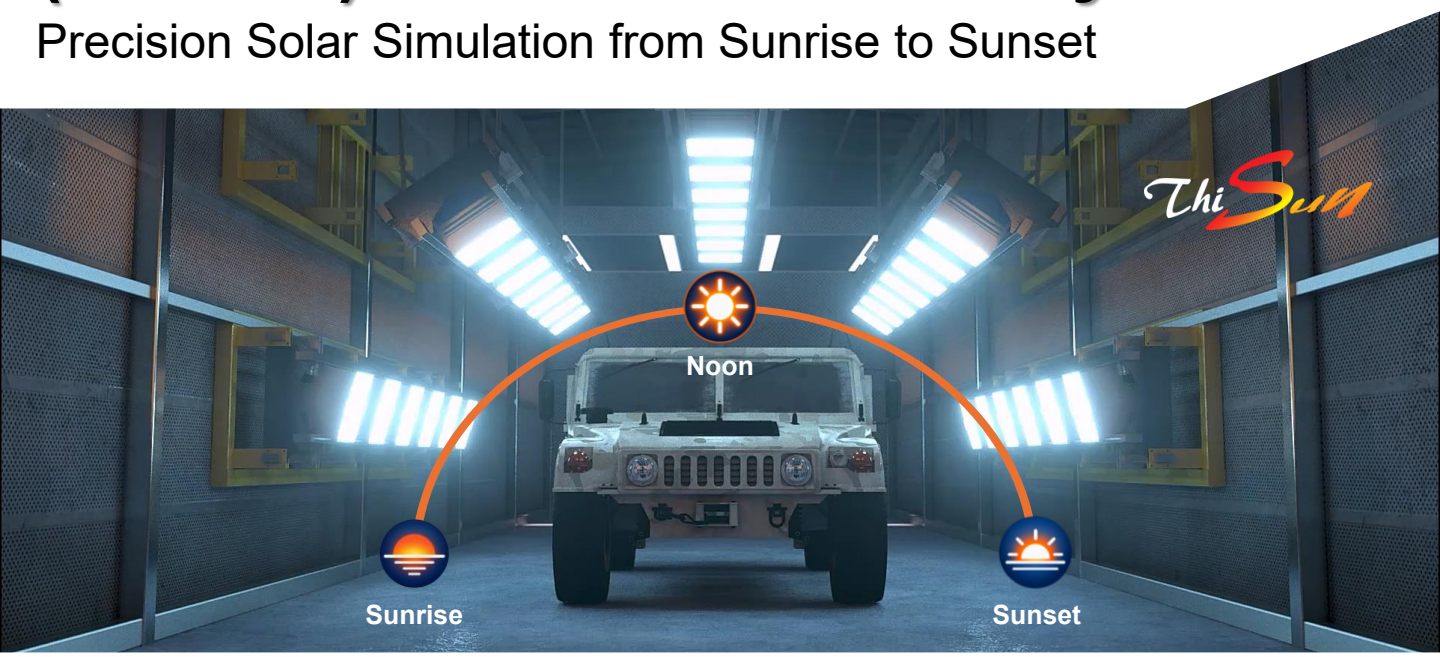
ThiSun

(Diurnal)Solar Simulation System

Precision Solar Simulation from Sunrise to Sunset



55 ~ 1,120 W/m²
Adjustable Irradiance

280 ~ 3,000 nm
Full Spectrum Radiation

4,000 W
Metal Halide Light Source

Manual & Automatic
Flexible Control

APPLICATIONS

Automotive & Mobility

Vehicle / EV / ADAS Solar Load & Thermal Validation
Interior/Exterior · HUD/LiDAR/Camera · Cabin/HVAC



Aerospace / Defense

UAV, Avionics & Defense Solar Radiation Test
UAV · Avionics & Military Electronics · Outdoor Electronics



Railway & Transportation

Rail Vehicle & Large Structure Solar Exposure Test
Cabin Cooling · Thermal Comfort · Windows/Electronics



Electronics, Materials & Energy

Electronics, Battery & Material Durability Evaluation
Display · Coating · Polymer · ESS/Battery · PV



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VISOL

Advanced Diurnal Solar Simulation Technology

Light, shutter and irradiance control reproduce solar radiation profiles.

KEY TECHNOLOGY

International Standard Compliance

Reproduces Diurnal Solar Radiation test conditions based on MIL-STD-810H Method 505.7 and DEF STAN 00-035 Part 3.

Precision Shutter Control

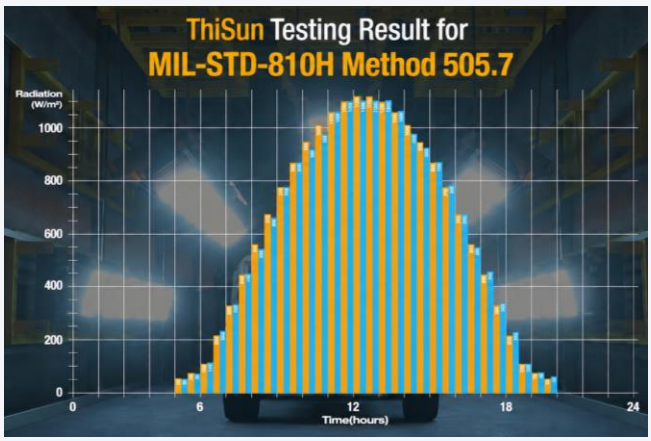
Precisely reproduces Sunrise-to-Sunset irradiance variation with a high-temperature shutter rated above 1,000°C.



KEY SPECIFICATION

Intensity	55 ~ 1,120 W/㎡ (Adjustable)
Light Source	Metal Halide Lamp (4,000 W)
Spectrum Radiation	Full Spectrum (280 ~ 3,000 nm)
Control	Manual & Automatic
Operation Temp.	-10 ℃ ~ + 50 ℃
Operation Humidity	0 % ~ 80 % (No Dew)
Electric	AC 380 V / 3 PH 4 Wire / 50 ~ 60 Hz
Bulb Life Span	Average 350 H ~ 400 H (Depends on system)

DIURNAL SOLA IRRADIANCE PROFILE



SUPPORTED STANDARDS

Solar Spectrum & Simulator Standards

✓ CIE 241 ✓ AM1.5G ✓ IEC 60904-9

Environmental, Automotive & Energy Test Standards

- ✓ DIN 75220
- ✓ UIC 553-1
- ✓ IEC 60068-2-5
- ✓ IEC 61215 Series
- ✓ SC03 / AC17 (U.S. EPA 40 CFR 1066.835)

Aerospace & Defense Test Standards

- ✓ MIL-STD-810H Method 505.7
- ✓ DEF-STAN 00-035 Part 3
- ✓ NO-06-A107
- ✓ NATO STANAG 4370 / AECTP 300 Method 305

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