



Solar Simulation System



6F Gwangmyeong Techno-Town, 626-3, Cheolsan-dong, Gwangmyeong-si, Kyonggi-do 423-829 KOREA
Tel. 02-2612-2111 Fax. 02-2612-0660 Web. www.visol.co.kr e-mail. hopark@visol.net

Human and Technology Create Future

VISOL, Inc was established with the aim to develop the best image and optical solution on Visual solutions basis. Applying the most advanced technology to overcome the limitation of the human eye, we will keep to challenge and endeavor for perfecting Image acquisition, Analysis solution and Optical technology in order to conquer global market.



Company	VISOL Inc.	
President	Jae-Young Lee	
Establishment	January 2000	
Employee	35	
Head Quarter	6F Gwangmyeong Techno-Town, 626-3 Gwangmyeong-si, Kyonggi-do 423-829 Korea	
Business	Sports Timing and System Maintenance 2D & 3D Motion Capture & Analysis System Test System (High Speed Lighting, Solar Simulation) System Engineering and Integration	
TEL.	82-2-2612-2111	FAX. 82-2-2612-0660
URL	www.visol.co.kr www.kwon3d.com	e-mail hopark@visol.net



What is Solar Simulation?

- Weather in a hot dry desert, warm and humid subtropical climate or in the extreme alpine regions, a car has to function. A car is a distinct representative or products that have to with – stand various types of continuously changing environmental conditions.

Test

- Detailed information on the effective exposure conditions in field and laboratory
- Close simulation of natural exposure conditions
- Detailed knowledge on the material
- Support through numerical calculation models and statistical processing



Result

- Improved expressiveness and comparability of tests respectively of test results
- Guidance for necessary improvements and optimizations of test equipment and procedures



Intensity : $600\text{W}/\text{m}^2 \sim 1,120\text{W}/\text{m}^2$ or More

Operation Temp($^{\circ}\text{C}$) : $-10\text{ }^{\circ}\text{C} \sim +60\text{ }^{\circ}\text{C}$

Operation Humidity(%) : $5\% \sim 95\%$

Uniformity : $\pm 10\%$

Stability : $\pm 1\%$

Radiation : Global Radiation($260\text{nm} \sim 3000\text{nm}$)

UV Cut Off : 260nm or Shorter

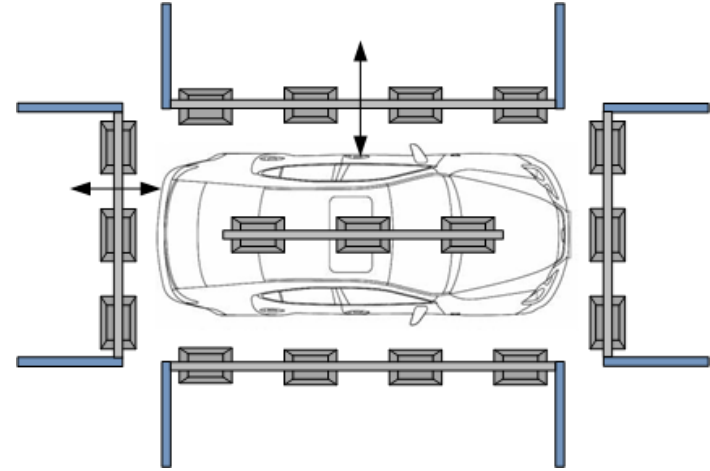
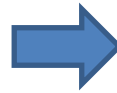
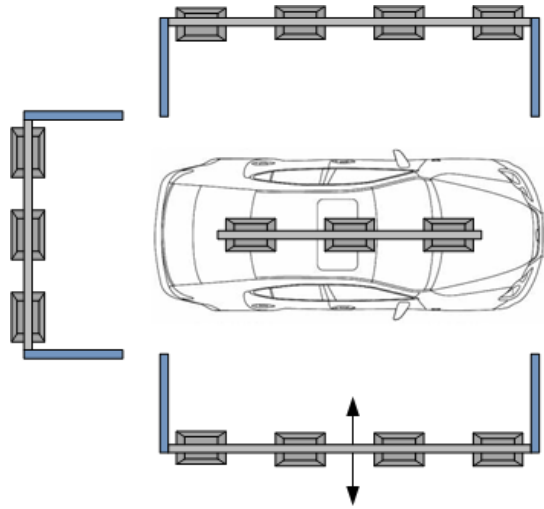


Solar Simulation Overview

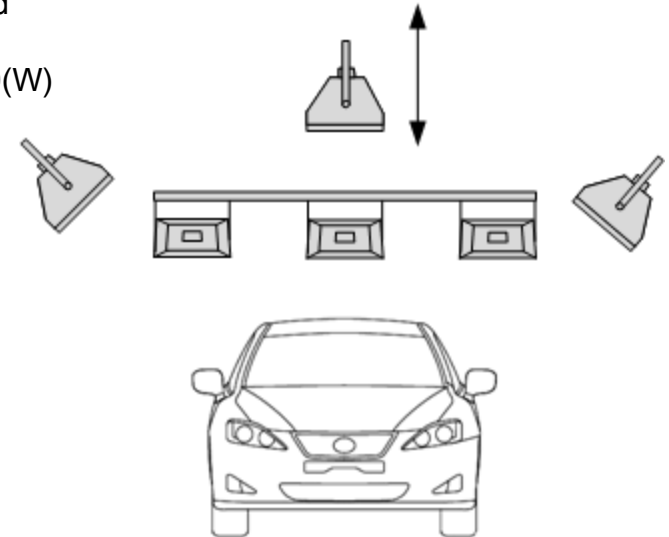
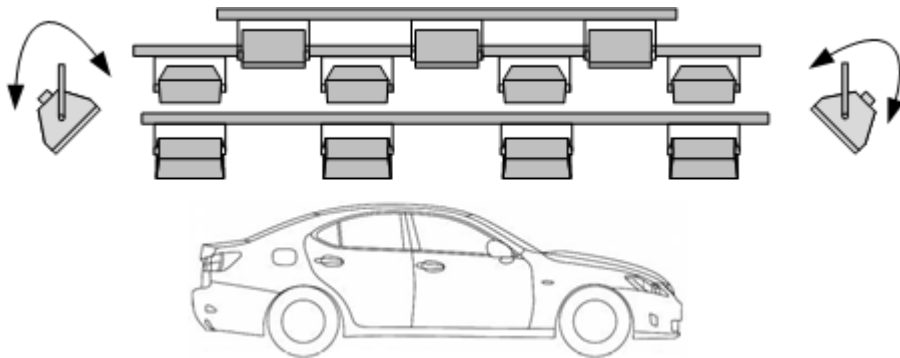
Solar Simulation

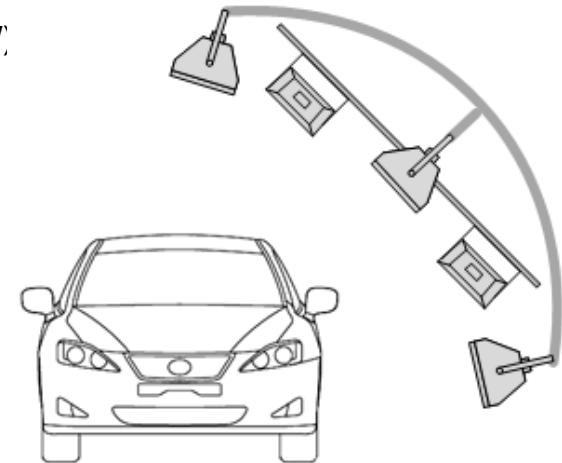
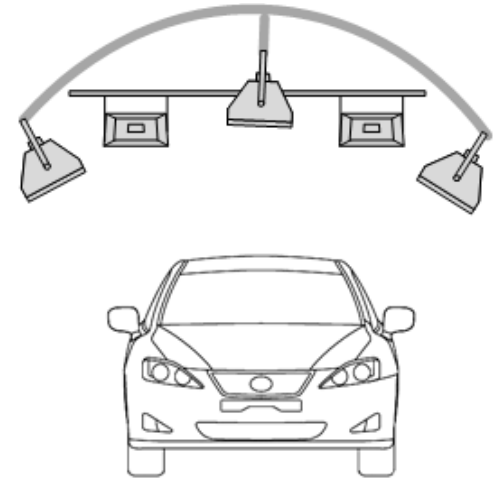
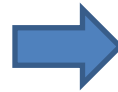
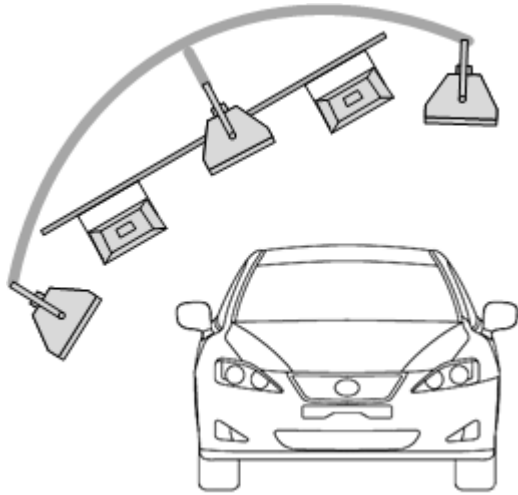


4KW 5 Frame Movement System

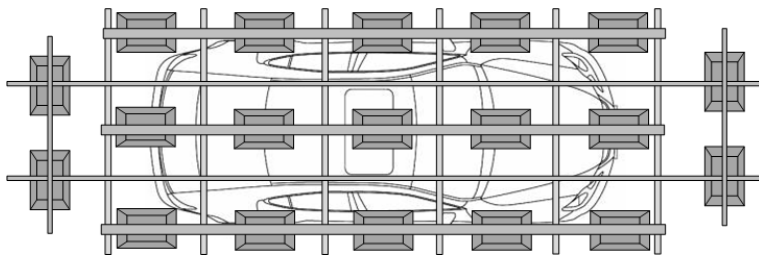


Power Supply : 4KW
Luminary : 17EA
Frame : 3Movement & 1Fixed
Total Electric Power : 80KW
Target Area : 6000(L) × 2500(W)

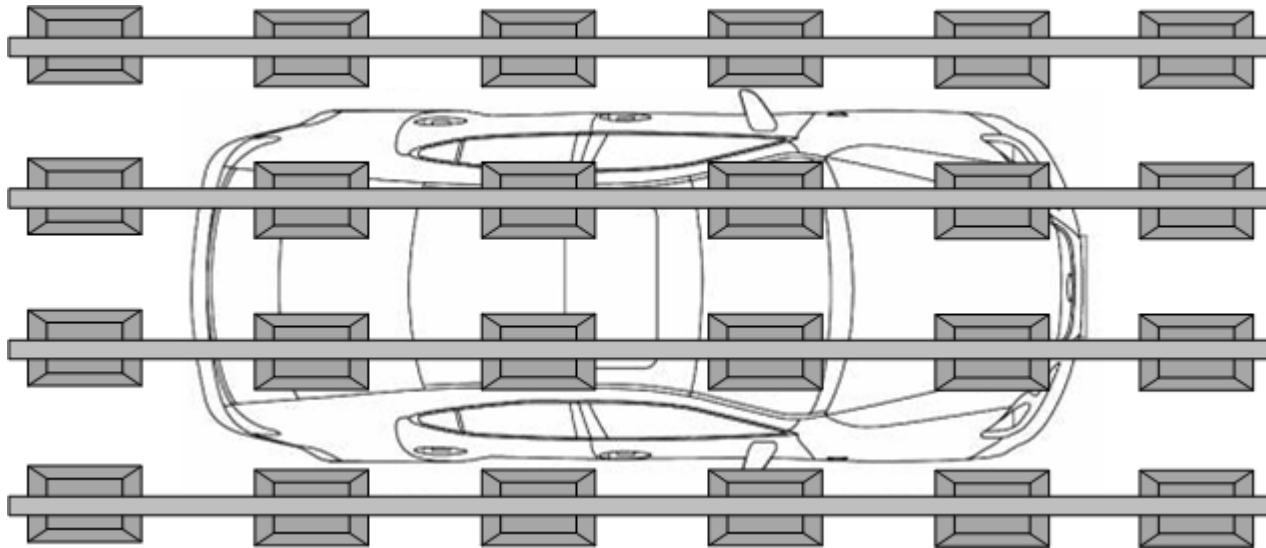




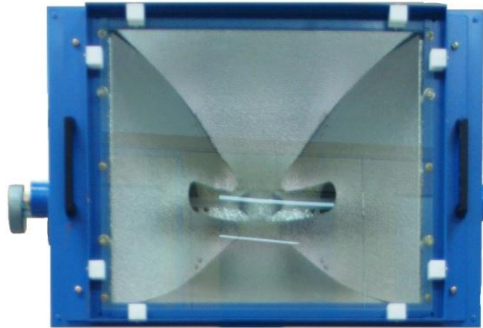
Power Supply : 4KW
Luminary : 19EA
Frame : 1Movement
Total Electric Power : 80KW
Target Area : 6000(L) × 2500(W)



Top View



Power Supply : 4KW
Luminary : 24EA
Frame : 1Frame Movement (Z-axis)
Total Electric Power : 100KW
Target Area : 6000(L) × 2500(W)



Luminary

Working Temp (°C) : -10°C ~ +60°C

Humidity(%) : 5% ~ 95%

Lamp Type : Metal Halide 4000W

Lamp Ava. Life time : 500h

Color Temp(K°) : Approx. 6000K°

Luminary type : Flood Type

UV Cutoff : 280nm or Shorter

Power Supply 4000W

Input : 220V/3PH or 380V/3PH/N

Output : 2,000W ~ 4,000W(50% ~ 100%)

Ambient Temp(°C) : 0 °C ~ +30 °C (No Dew)

Output Stability : ±1%

Current waveform : Bipolar & Square wave

Protection : Over Current Protection & Over Temperature Protection

Over Voltage Protection & Low Voltage Protection

Short Circuit Protection, Earth Leakage Protection

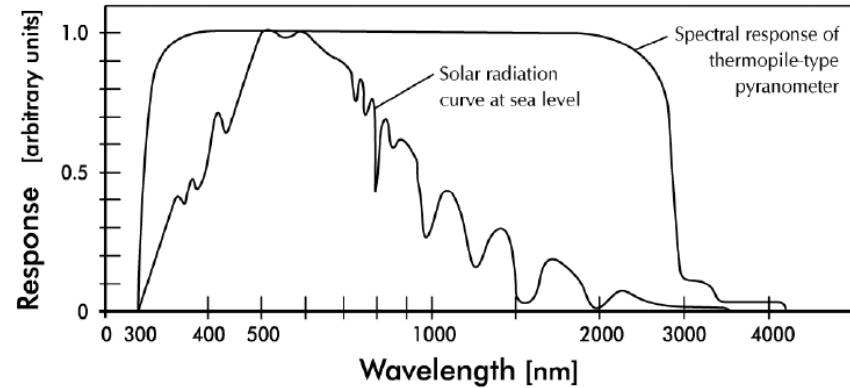




Solar Master



- The similar GUI as the real product installation
- Profile Save and Load
- Real-time Display of Status
- Etc.



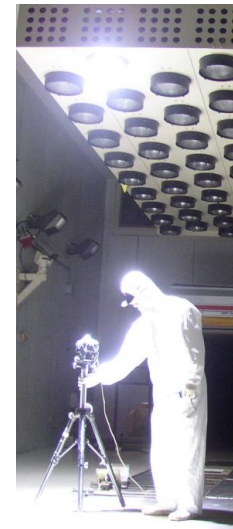
Specifications

Spectral Range (nm) : 285 – 2,800

Maximum irradiance (W/m^2) : 2,000

Operation Temperature ($^{\circ}C$) : -40 to 80

Humidity(%RH) : 0 - 100





TÜV AUSTRIA CERT GMBH
Certification Body



CERTIFICATE OF CONFORMITY

Reg.- Nr.: TA 380 09 0374

Product:	High Speed Light EPS (Electronic Power Supply)	Applicant:	Visol, Inc. #601 Gwangmyeong Techno-Town 626-3, Cheolsan-dong Gwangmyeong-si, Kyonggi-do 423-829 Korea
Type:	VSEPS-4000		
Description:			
Certification reference:	EN ISO 12100-1:2003 EN ISO 12100-2:2003 EN 60204-1:2006 EN 60204-11:2000 Machinery Directive 98/37/EC, Annex I (Essential health and safety requirements)		
Comments:			
Test report:	BWS-09-SC-138		

The above mentioned product complies with the requirements of the above standards. It fulfills the requirements of Directive 98/37/EC.

2009-10-08
Date of issue


 Certification representative



After preparation of the necessary technical documentation as well as the conformity declaration the required CE marking can be affixed on the product. Other relevant directives have to be observed.

„The duplication of this document in parts is subject to the approval by TÜV AUSTRIA CERT GMBH“

TÜV AUSTRIA CERT GMBH
A-1015 Wien, Krugerstraße 16
www.tuv.at

Tel.: +43 (0)1 514 07- 6062
Fax: +43 (0)1 514 07- 6065
e-mail: prodzert@tuv.at

QFM-TAC-ModA-006, Rev.01



TÜV AUSTRIA CERT GMBH
Certification Body



CERTIFICATE OF CONFORMITY

Reg.- Nr.: TA 380 09 0375

Product:	High Speed Light EPS (Electronic Power Supply)	Applicant:	Visol, Inc. #601 Gwangmyeong Techno-Town 626-3, Cheolsan-dong Gwangmyeong-si, Kyonggi-do 423-829 Korea
Type:	VSEPS-4000		
Description:			
Certification reference:	EN 61000-6-4:2007 EN 61000-6-2:2005		
Comments:			
Test report:	BWS-09-EC-0109		

The above mentioned product complies with the requirements of the above standards. It fulfills the requirements of Directive 2004/108/EC.

2009-10-09
Date of issue


 Certification representative



After preparation of the necessary technical documentation as well as the conformity declaration the required CE marking can be affixed on the product. Other relevant directives have to be observed.

„The duplication of this document in parts is subject to the approval by TÜV AUSTRIA CERT GMBH“

TÜV AUSTRIA CERT GMBH
A-1015 Wien, Krugerstraße 16
www.tuv.at

Tel.: +43 (0)1 514 07- 6062
Fax: +43 (0)1 514 07- 6065
e-mail: prodzert@tuv.at

QFM-TAC-ModA-006, Rev.01

