

HelioBase® Simulation Software for Photovoltaic Systems

Here comes everything you needed for PV simulation.

HelioBase® considers a wide range of meteorological conditions and other aspects for PV simulation.

Meteorological Expression



Use of hourly meteorological data.



Use of specific latitude, longitude and time zone.

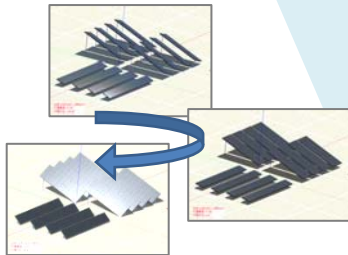
HelioBase® uses specific location and hourly meteorological data of target site to obtain exact solar radiation, temperature, wind speed and so on.



Shading effects are calculated at intervals in accordance with heuristic algorithms.

Solar position is calculated by latitude and longitude with time zone.

Precise Geometrical Expression

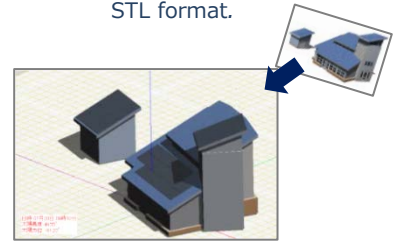


Tracking PV Arrays

You can express positional relation among PV modules and other objects such as house.

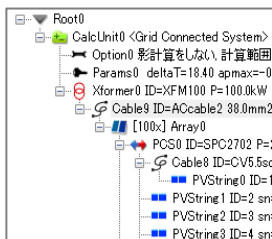
3D model view can describe multiple rooftop layout, array layout with tracking so that you can use it for both industrial and residential use.

Importing 3D models in STL format.



Rooftop PV Layout

Flexible Electrical Expression



Specification Tree

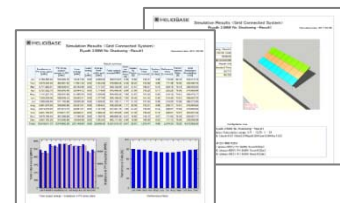
Specification Tree holds whole of system structure.

You can easily set and modify combination of devices on it by drag & drop or various operations.

JAPAN PATENT NUMBER
4643759, 4666538
PCT: Patent Pending

Analysis Reports

HelioBase® shows simulation results with data tables and charts on screen, as an excel-formatted reports and printed reports.



- Reliable simulation results are provided by accurate 3D models, precise meteorological data and methodology corresponded with reality.
- Easy to design system configuration by using flexible specification tree.
- Shading and reflected light effects are easily acquired by highly implemented 3D viewing capability.

HelioBase® Feature

Professional Edition	
Meteorological Expression	
Meteorological Data	
METPV-3	836
TMY3	1020
Meteonorm	importable
Geometrical Expression	
2D View	
Auto PV Array Placement	●
3D View	
Angle Free Operation	Pan / Tilt / Zoom
PV Module Placement	●
PV Array Generation / Placement	●
Automatic PV Array Placement	●
PV Strings Configuration	●
3D Model Positioning	Move / Copy / Rotation
3D Model Data Importing	STL format
Ground Texture Image	GIF / JPEG / BMP / PNG / TIFF format
Shading Effects	●
Reflected Light Effects	●
3D View Images Output	JPEG format
3D View Movie Output	AVI format
Electrical Expression	
Supported System Configuration	
Grid Connected Systems	●
Stand-alone Systems	●
Supported Devices	
Supported Devices	Transformer, Cable, Inverter, Combiner Box, Step-up Converter, PV Module(PV Strings), and User defined Load Devices
Results Expression	
On Screen	
Summary	●
Detail Data Tables and Charts	●
Reports	
Excel-formatted Reports	●
Printed Reports	●
System Requirement	
PC Specs	
OS	Windows XP SP3 (32bits) / Windows Vista SP2 (32bits) / Windows 7 (32bits, 64bits)
Memory	1.0GB or higher
Disk	2.0GB
Graphics	OpenGL 2.0 compatible graphics card

Field Logic is a company has been developing and selling simulation and monitoring applications for PV systems in Kyoto, Japan.



Measurement Software

The Beans® is a simple and flexible standard software suite for monitoring and analyzing measurement data.



Light Digital Signage Software

The Festa® is a Flash®-based digital signage software. Ideal both for narrow and broadcasting your message coupled with visualized measurement data.



Monitoring Software

The Owl® enables users to monitor all measurement sites on a single display.



Field Logic Inc.

Augusta Bldg. 34-9 Uchihata Kohata Uji-city, Kyoto, 611-0002, Japan

URL: <http://www.f-logic.jp/global/>

Email: info@heliobase.com