LightManufacturing H1 Heliostat

High-performance Heliostat with Wireless Remote Control



Integral WiFi networking (IoT)

85%+ reflective mirror

Robust worm-gear mechanism

IP66 stepper motors

Shatterproof reflectors, field replaceable

Mirror options: flat or parabolic focus.

Mirror area 1.5 M2 / 1275 watts reflected power

Integral microprocessor tracking system

Low cost per reflected watt

Ideal for heating & day-lighting uses

Multiple units can be controlled as one array

LightManufacturing's H1 Heliostat brings new performance and cost-efficiency to solar thermal and lighting applications.

The unit's integral microprocessor tracks the sun accurately throughout the year. External software is used only for initial configuration and for target selection.

With WiFi network capability, the H1 joins your network for quick setup and target selection via web browser.

Multiple targets can be defined and stored, allowing the user to conveniently switch what they are heating / lighting.

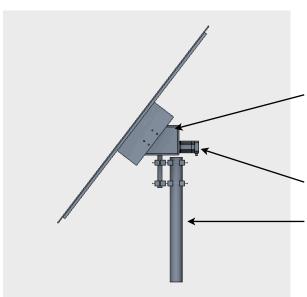
Combine many H1s into powerful arrays to deliver unlimited heat / light for advanced applications.

Tracking accuracy is <.5 degree. Configuration and setup is simple, requiring only a vertical pole for mounting and basic local data such as true-South direction, date, time, latitude and longitude.

Solve your industrial or residential solar projects with ease - with the LightManufacturing H1 heliostat.



LightManufacturing H1 Heliostat



NO SOFTWARE required simple web browser control

On-Board microprocessor controller. Operates autonomously if desired.

Bronze/Stainless leadscrews, IP68 Enclosure

Weatherproof Stepper Motor (2x)

Mounts to standard fence post (2.375"/ 60mm Dia. not provided)

Requires: 12V DC 3A Power supply (not included)





Available Options

- Vacuum-Focus Mirror delivers 900+ watts to highly concentrated target. 10cm diameter spot at 20 meter distance.
- PV-panel support configuration (no mirror) Sun Tracker.
- · Solar Power System

Provides photovoltaic panel and weather-poof power box (battery / charger) to operate up to 6 H1 heliostats.

Specifications

Performance Specifications

Reflective Efficiency 85% (clean) Max wind load (any position) 60 MPH Max wind load (safe position) >70 MPH 200' Wireless range

120 degrees left-right Angular Range: 60/-5 degree vertical

1300 Watts Maximum delivered heat:

Physical Specifications

Weight: 45 lb. 11.3 kg

Self-Centering aluminum

post mount fist 2 3/8" (60mm)

diameter poles.

Reflector Types*: 48" square /1.5 M2 Flat

48" square /1.5 M2 Parabolic*

General Specifications

Electronics:

Power Required: 11.5-14 V DC, 3A (peak current)

Integrated circuit,

housed in NEMA / IP66 enclosure, integral

WiFI.

Motion: 2x IP66 Stepper

Mounting Points:

*Vacuum adjustable focal length

Warranty / Support

1 Year, Mechanical Defects

Support: email/phone technical support, periodic software updates delivered via WiFI.

