

Autonomous Solar  
Wayfinding Marker

# Crystal Stud

## Architectural Signature

CRYSTAL STUD is a solar-powered luminous stud designed as a precise tool for city-centric scenography. Delivering controlled, adaptable lighting, it allows intensity, rhythm, and color to be composed to suit each environment, transforming pathways and spaces into intentional visual experiences.



### No Cost

No Trenching Cost,  
Zero Electric Bills, Zero  
Maintenance for 10 Years



### RGB

LED RGB Marking



### 365

Nights of lighting  
per year guaranteed



### 5 Years

Parts & Labor Warranty  
Including Energy Box  
with No Pro Rating

**PHOTOVOLTAIC MODULE**

Total number of Photovoltaic panels (PV)	1
Wp power	0.66 Wp
Cell Technology	Monocrystalline Cells
Types of cells	Sunpower Back Contact
Lifespan	> 25 years
PV Surface Area	4.88 in
Efficiency	25%

**BATTERY**

Chemistry	LiFePO4 (Lithium Iron Phosphate)
Nominal voltage [V]	3.2 V
Capacity [Ah]	4.5 Ah
Lifespan	~ 15 years

**LIGHTING FIXTURE**

Luminous flux	5lm
LEDs color	RGB colors + 3000K white or RGB colors + amber
CRI of the white LED	>80
Ingress Protection (IP)	IP67
Impact resistance rating (IK)	IK07

**STRUCTURE**

Chassis materials	Glass
Weight (in kg)	2.7 lbs.
Thickness	0.98" thick (mounted on aluminum tube)
Dimensions	4.72" x 4.33"
Operating temperatures	14° F - 140° F

**Lighting Profile**

Lighting Profile

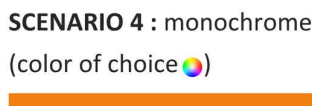
**SCENARIO 1** : rainbow chain.



**SCENARIO 2** : rainbow fade.



**SCENARIO 3** : monochrome candle light  
(color of choice)



**SCENARIO 4** : monochrome  
(color of choice)

*Other scenarios available upon request.*

**SCENARIO 5** : rainbow flash  
(choice of number of flashes per second).



**SCENARIO 6** : rainbow wave.



**SCENARIO 7** : monochrome candle light  
(color of choice + choice of number of flashes per second).



**SCENARIO 8** : monochrome wave.

