



Active road studs

As we all know, in the nighttime, the driver's vision is limited by the range of the car's lights. Even reflectors are limited in this respect, and can only be seen at a distance that the car covers in 3.2 seconds.

In fact, for a driver to notice any marking from a distance, the marking must be self-lit

The marking that provides the best visibility is the kind that contains illumination devices that light in the direction of the driver.

DST's active road studs include LED-based illumination and can be noticed from a distance of tens of meters, up to ten times the maximum distance of reflectors!

According to English researches, roads that incorporate active road studs have 70% fewer accidents during the nighttime!

DST's active road studs main advantages:

1. Activation using a solar cell that supplies energy to activate the product for decades, and saves the need for changing batteries or connection to the power grid.
2. Reliability – When a product is permanently installed in a road, it is required to function properly without maintenance. DST's road studs function properly for years in the most extreme Middle-eastern and East European conditions: Frequent blows from vehicles, turmoil, vibrations, heat in the daytime and cold in the winter nights, roads' expansion and contraction etc.
3. The system recognizes nightfall and starts functioning independently in the nighttime. The system ceases its activity at daybreak.
4. The system expected life span is over 20 years. We use components and LEDs manufactured by the leading companies in the world, ensuring a lifespan of over 100,000 working hours. Our vast experience in manufacturing current management circuits allows the LEDs to function under optimal conditions, ensuring that they function for many years.
5. The system incorporates solar panels that allow proper system activity in extreme weather conditions. The large capacitor enables proper activity without recharging for over 3 nights.
6. Light intensity of over 56,000mcd per unit! Such intensity provides visibility for especially long ranges.
7. The energy is stored in a capacitor. As opposed to chargeable batteries, the capacitor's life spans decades. The capacitors we incorporate can supply the product with 500,000 cycles of charging and discharging!



DST

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Road Studs for every need!

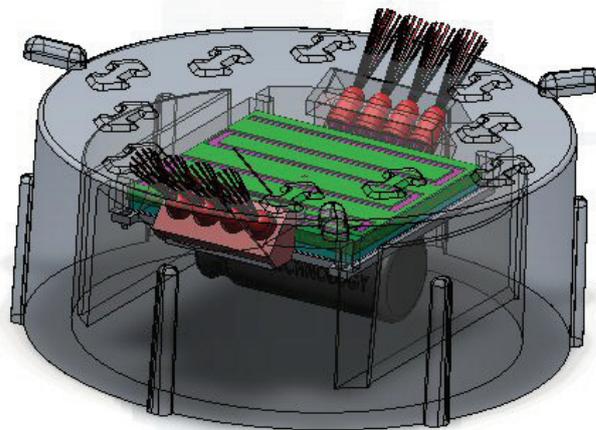
No matter what you need to mark, we have the right road stud for it.

DST offers a wide variety of road studs, ranging from the common one side, two LEDs road stud to color changing models that receive IR transmission.

Along with the shelf products, DST provides many custom made road studs for special needs.

Here are our main lines of our road studs:

Model	Description
ARS - o121	Solar road stud, one sided, two bright white LEDs – our most common product! This product is very sophisticated but also very simple to use. This model can be ordered with 2,3 and 4 LEDs
ARS – d121	Two sided road stud. Design to be mounted in the center of two way roads.
ARS –322	One sided road stud that blinks with colored LEDs. This product can be ordered with the following colors: red, green, yellow, amber and blue
ARS – S411	Synchronically operated road studs. Designed specially to mark curves, crosswalks and access routes.
ARS – c255	Green/red, color changing, two sided road stud. Designed to mark the traffic direction in special roads.





Technical Data for ARS - o121

Dimensions & Weight

Size : Ø113mm (4.5")Hight : 50mm (2")Weight: 460g

Physical Properties

Compressive Strength: 1,000 kg/cm

Operating Time and flash rate:

More than 30 hours

Flash Rate: 1.3Hz (80 times per min)

Charging Time:

2 hrs in direct sunlight (where solar irradiance = 1000 w/m²).

Material List

Top cover	Transparent Poly carbonate
Filling	Special materials

Operation

Life time	more than 15 years
Warranty Period	2 year min (optional extended warranty)

Solar Energy

Type	Poly-Crystalline panel
Out-put Power	400mW
Current	100mA
Voltage	4V



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Energy storage

Type	Supercap
Normal Voltage	2.7V
Capacity	50F

Environmental and Electrical

Temperature Range	-40 ~ 70°C
Waterproof	IP 67

Lighting Properties

Type	Color	LED Luminance (mcd)*		
		average	min	max
Flashing	White	56000	40000	80000

*viewing angle 15 degrees

