

CAT'S EYES

RETROREFLECTOMETER



EASYLUX MINI RETROREFLECTOMETER IS CAPABLE OF EVALUATING ANY TYPE OF ROAD STUDS AT 0.2° (0.3°) OBSERVATION ANGLE (CAR DRIVERS) AND 1° (TRUCK DRIVERS) SIMULTANEOUSLY.

Easylux Retroreflectometers, Brazil.

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Retroreflective raised pavement markers (RRPMs) or road studs provide delineation on highways. They are highly important at night and under rain conditions, when road paintings become less effective at reflecting light to drivers.

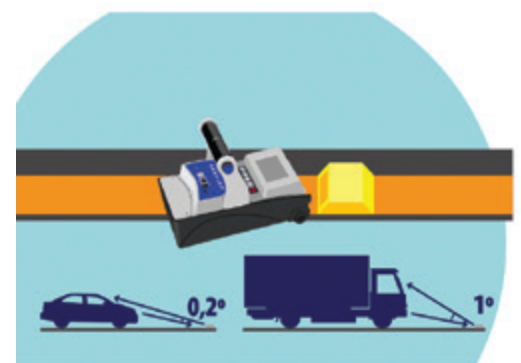
Typical retroreflectors are more efficient in reflect light back in a narrow cone, with the highest intensity along the illumination axis. It works well to car drivers, since the driver's viewpoint is close to the light source, but it becomes a problem to truck drivers due the increased seated height.

The average extent of vehicle headlamps is 152 m (500 ft). This means car drivers see RRPM delineators with approximately 0.2 degrees observation angle, whereas truck drivers have a 1 degree observation angle.

This small difference has a great impact on the light returned from the road studs: A road stud that is visible from a car may not be visible from a truck. This compromises perception of nighttime delineation provided by RRPM in a dangerous way, mainly under rain conditions.

Evaluating RRPM retroreflectivity, especially for critical observation angles that represent truck drivers' position, is essential for safety of all road users.

The MINI retroreflectometer from Easylux is the very first portable technology for check any type of road studs at 0.2° (car drivers) and 1° (truck drivers) observation angle simultaneously.



Truck drivers' geometry and entrance angle (βH) adjustment

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Dual angle road studs retroreflectometer 0.2° (0.3°) / 1.0° meets EN1463, ASTM D4280 and ASTM E1696.

It displays values of RRPM visibility for car and heavy vehicle drivers with a single button press.

The new Easylux technology is external beam with full access to the RRPM at the time of reading. It is perfect for measurements in the field or in the laboratory, as it allows correct positioning and precise adjustment of entrance angles.

That is not possible when using old traditional technologies, which demand that instruments are placed over the road studs.

The MINI retroreflectometer for road studs or RRPM is the smallest and lightest instrument in the world market. It encourages fieldwork – a challenging task for users of big and heavy traditional models, requires less valuable space in the car, speeds up the processes of loading and unloading, eliminates operators fatigue by muscular effort, with the added benefit of being easier to move from one site to another. It is capable of performing more than 10.000 measurements using standard AA rechargeable batteries, which are safe and easy to replace.

These state-of-the-art devices can be carried in a backpack – even by airplane without extra fees or battery warnings.

You no longer need to break your back to use a retroreflectometer.

Brains over brawn.
You no longer need to break your back using a retroreflectometer.

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