

A new level of portability

The technological innovations of a new generation of portable retroreflectometers make them more accurate, easier to use and opens up new possibilities in terms of transporting them

Words | **Gustavo Felipe Paolillo, Easylux Retroreflectometers, Brazil**

Retroreflectivity is the best performance indicator of various types of material used in road signage. There is no denying the importance of ensuring minimum levels of retroreflectivity, even in wet conditions. However, measuring this property in road markings has traditionally been a challenging task.

The old style of handheld retroreflectometers is large and heavy, thus requiring significant physical strength and special care during transportation. Furthermore, when such hardware requires air transport, problems frequently arise when attempting to ensure the safety of dangerous lithium-ion batteries and the payment of excess weight fees is common.

On the other hand, mobile, vehicle-mounted retroreflectometers are an expensive, oversized and impractical solution for routine monitoring services or for evaluating short stretches of roadway.



Easylux Road Marking Retroreflectometer: certified to EN1436 by an independent test laboratory

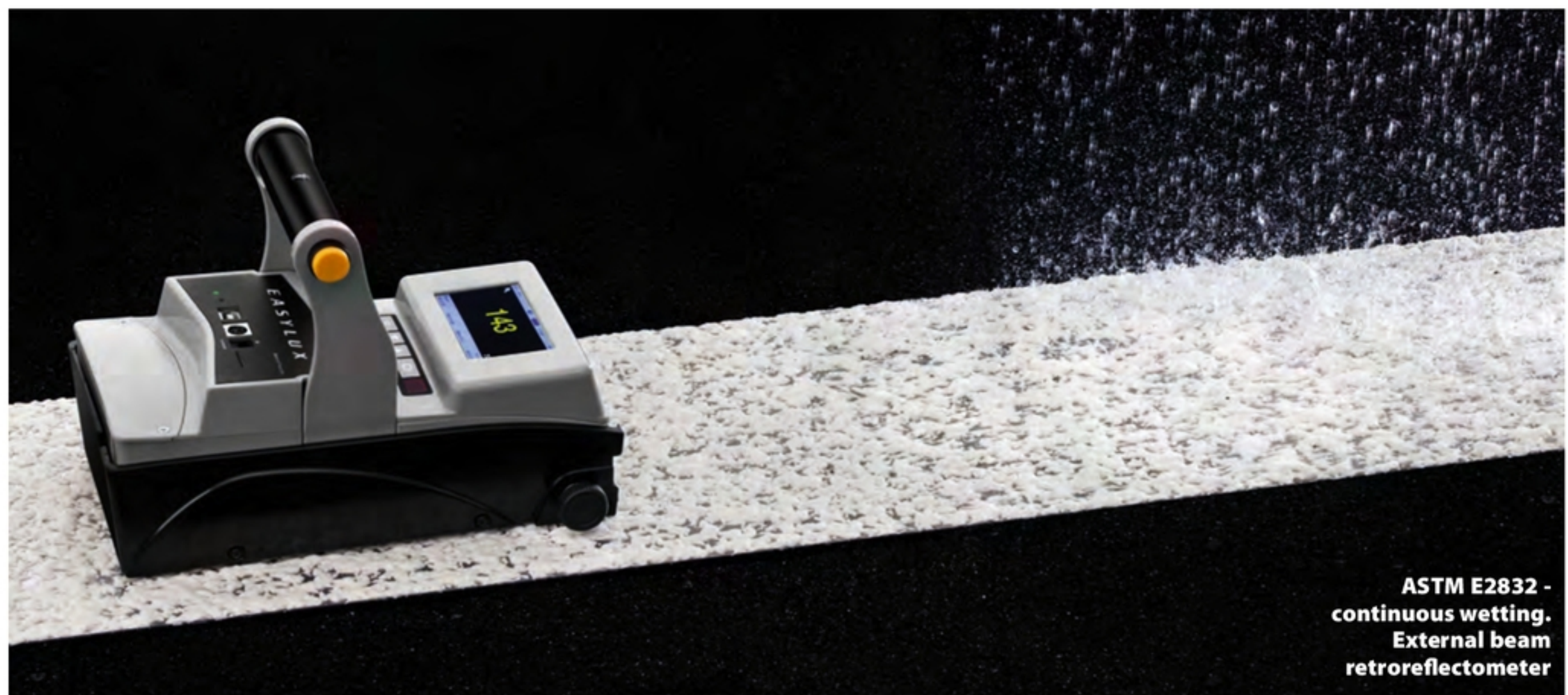
The new generation

The new generation of mini-retroreflectometers has broken down the limitations imposed by the inconveniences of old technology and has been changing ways of working.

For measurements on urban roads, technicians can get around by bicycle, subway or train – carrying a road-marking retroreflectometer in a backpack, a practice unthinkable less than two years ago.

Features such as the external beam measurement system and the ability to work with profiled markings of up to 15mm enable creative solutions such as attaching the product to a tricycle, creating an interesting low-speed mobile retroreflectometer.

Workers who undertake air travel will benefit from the use of ordinary AA batteries and the possibility of carrying their instruments as carry-on luggage, even on



ASTM E2832 - continuous wetting. External beam retroreflectometer



(Left) **The Easylux MiniReflecto is so light and portable it lends itself to innovative solutions such as attaching it to a bicycle or tricycle wheel**

low-cost airlines, with a significant gain in comfort and savings. Increased portability also means the units are easy for anyone to operate, regardless of physical strength.

The exclusive interface with smartphones to record field photos and measured values, also introduces a new way to exchange results and report findings.

Heavy vehicle safety

Drivers of heavy vehicles are in an unfavorable position, receiving considerably less light from road signage. The new

standards for reflective road studs, vertical signs and safety clothing already include higher observation angles, but traditional handheld meters have been shown to have technological constraints that prevented them from being useful for this type of measurement in the field.

In the case of reflective road studs, for example, traditional devices are not able to assess wider observation angles (such as those experienced by truck drivers). It is also hard to get traditional devices in the correct alignment with the road studs

in the field, which means they are not often practical for use on highways.

Easylux mini-retroreflectometer technology, with its external beam measurement, enables easy visual alignment with road studs, ensuring correct and simultaneous results for the two major observation angles – car and truck.

In addition, it is possible to meet all the requirements for safety clothing according to ISO 20471 with a single four-angle and continuous entrance-adjusting MiniReflecto Vertical retroreflectometer from Easylux.

Be aware of new possibilities

Measuring retroreflectivity is increasingly important to our society. Now the reinvention of portable retroreflectometers technology is bringing new possibilities for improving the quality and performance of road safety material inspections. ■

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Retroreflectometers For Intelligent People.

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www.easylux.com.br

vendas@easylux.com.br

Tel: +55 11 3438 3448