

Smarter ways to work

Retroreflectometer control software integrated into a smartphone, coupled with lightweight hardware, can revolutionize road marking inspection work

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With super-high-resolution cameras, broad cellular bandwidth, and ample storage space, smartphones are becoming important allies for road marking professionals. For example, light retroreflectometer software can now be integrated into cell phones in the form of an app, developed by Easylux.

The app works as an interface through which users can control, command and view measurement results, essentially meaning that a small, portable Easylux MiniReflecto device can now be fully controlled via a smartphone, making it an unparalleled tool for road marking inspection.

The app lets the user take photos, add notes, and export measurements to any third-party via WhatsApp, Google Maps or email. Photos are combined with the measurement results, so that a single photographic record allows for the complete analysis of signage or road markings, further enhancing the power of the app as a documentation tool.

If a more detailed analysis is required, users can import data with Easydata – free software compatible with all Easylux models.

The convenience of a smartphone-based setup is in stark contrast to traditional hardware for measuring the retroreflectivity. Traditional retroreflectometers emerged in the 1980s, but today they are still the same – large, heavy, cumbersome instruments powered by special batteries. Users of such conventional technology put great physical effort into moving the device to the measurement site and collecting data. Then, the measured results need to be transferred to a PC at the office so that they can be shared with all the relevant parties. This approach is beginning to look inadequate in today's constantly connected global workplace.



The MiniReflecto is a groundbreaking technology that will improve the inspection of road markings. Such technology miniaturization encourages fieldwork – a challenging task for users of traditional models – and offers valuable technical solutions, such as an external light beam, entirely immune to sunlight. The external light beam is highly valued by professionals who need to be able to demonstrate the behavior of materials in wet conditions, while the compact, light build means it is also useful for those who often make long-distance trips for work.

Small, portable devices require less valuable space in work vehicles and speed up the processes of loading and unloading, as well as reducing the time it takes to move from one site to another. When traveling by air, MiniReflecto can be transported as carry-on luggage, avoiding extra charges. It is capable of performing more than 8,000 continuous measurements using standard AA rechargeable batteries, which are safe and easy to replace.

These state-of-the-art systems are highly reliable and certified to EN1436 standard. In other words, you don't need to break your back to use a retroreflectometer anymore.

New possibilities

More and more, vendors and professionals are becoming aware of the potential of Mini retroreflectometers for demonstrations of new materials and performance checks of night visibility in the field.

The fact that you can transport your equipment in a backpack, with little additional effort, is extremely advantageous.

Finally, portability has solved an old problem: fatigue caused by lugging heavy hardware around. If you are still carrying a 10kg device to work with you, you are way behind the curve. ■

Opposite and below: **The MiniReflecto for road markings is certified to the EN1436 standard, as a result of independent laboratory testing**

Right: **Lightweight devices, such as the MiniReflecto, are becoming more commonplace in workplaces in the industry**



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