

**ERGONOMIC  
ROAD MARKING  
CONTROL**

Sun proof measurements.

## HORIZONTAL

### Retroreflectometer

EN1436	RL Qd
ASTM E1710	RL
GOST	R54809
ASTM E2302	Qd
ASTM E2177	RL wet
ASTM E2832	RL2 (rain)

MINI Horizontal measures the night visibility **RL**, the Day Visibility **Qd**, the visibility under wet **RL wet** and continuous wetting conditions **RL rain** of road markings.

The patented MINI retroreflectometer optical system, combined with CIE eye sensor response, allows precise measurement of all types and colors of road marking materials, even profiled markings up to 15 mm.

Fast measurements: 0.6 s for RL, 0.9 s for RL + Qd.....immediately ready for next measurement.

### Dimensions and Weight

Length	255 mm (without Qd)
Width	155 mm
Height	170 mm
Weight	2.1 kg (with battery)
Carrying case	470 x 380 x 240 mm

### Electrical

Battery	Standard rechargeable AA size (6 units)
Charger	Automatic 100-240 V full range
Data memory	SD Card (4 GB minimum) (> 1 000 000 data points)
Display	Color transfective, touch screen
Data Interface	USB , Bluetooth (optional)
Operating	-5°C to 50°C
Light source	LED light (maintenance free)

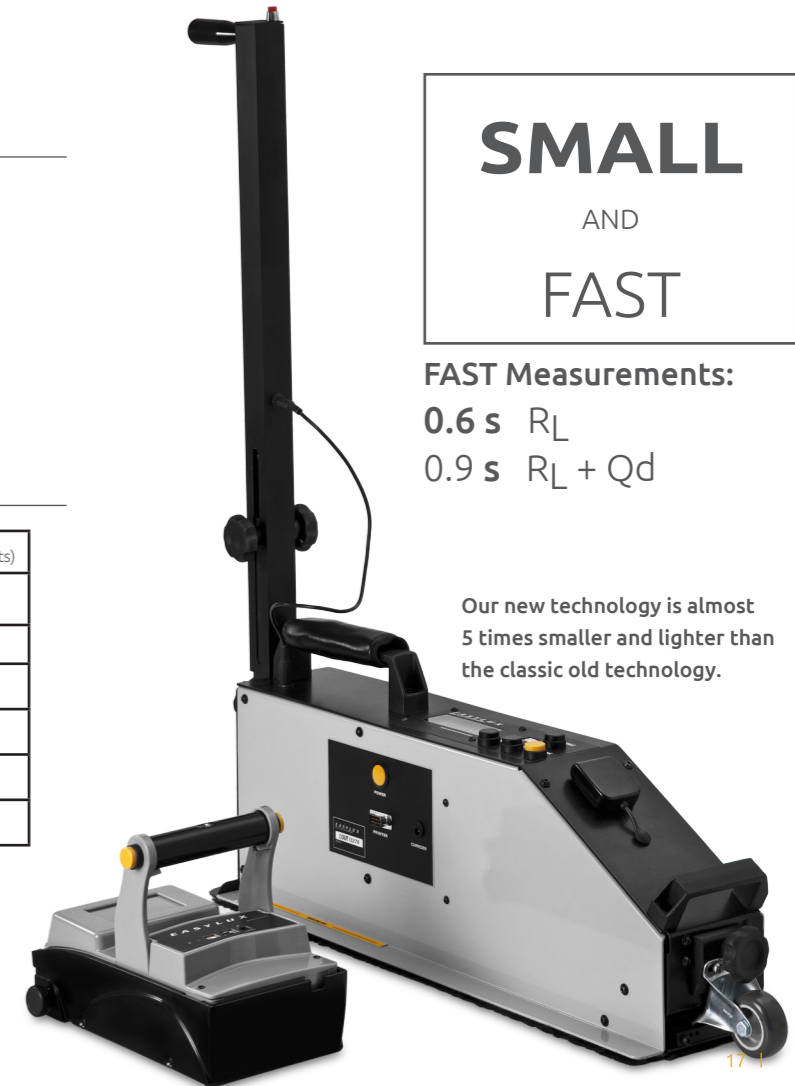
**SMALL  
AND  
FAST**

**FAST Measurements:**

**0.6 s** RL

**0.9 s** RL + Qd

Our new technology is almost 5 times smaller and lighter than the classic old technology.



**WORK  
LIGHT**



## MINI Horizontal Features

- 30-meter geometry (15-meter 86.5°/1.5° available).
- Standard universal rechargeable AA battery.
- **External beam measurements for  $R_L$  and Qd.**
- Open measurement area, allows see what you are testing.
- Android Smartphone Bluetooth interface (optional).
- Temperature, humidity and inclination (% Tilt X and % Tilt Y).
- GPS (optional).
- User removable SD Card (8 GB).
- Color transfective (sun readable) LCD with touch screen.
- LED technology - almost maintenance-free.
- Airplane carry-on luggage compatible carrying case.
- Adjustable handle and IrDA remote control.
- Fast measurements: **0.6 s** for  $R_L$ , **0.9 s** for  $R_L + Qd$  .....*immediately ready for next measurement.*
- Measure flat and profiled markings up to 15 mm.
- Register the date, time, GPS, humidity, temperature, tilt %,...
- LOG facilities (Road name, milestone, color, material, ...)
- Free EasyData software for data analysis and reports.
- Calibration by ceramic reference - NIST / METAS traceable.

## MINI Horizontal Technical

Illumination angle	1.24° (88.76°)
Observation angle	2.29° (1.05°)
Geometry	30-meter simulation distance (15-meter available) <b>Arrangement B</b> - The length of the illuminated area is fully included within the length of the detected area.
Observation aperture	±0.15°
Measurement area	58 x 350 mm
Measurement sensor	CIE V ( $\lambda$ ) adapted
Measurement Range	$R_L$ : 0 - 4000 mcd . m <sup>2</sup> . lx <sup>-1</sup> Qd: 0 - 400 mcd . m <sup>2</sup> . lx <sup>-1</sup>
Measurement Time	<b>0.6 s</b> for $R_L$ , <b>0.9 s</b> for $R_L + Qd$
Profiled markings	Up to 15 mm

**2 years warranty**

## Traceable Reference Standard

Easylux instruments are calibrated at a factory laboratory and traceable in accordance with standards issued by NIST or METAS.

**30-meter geometry:**

88.76° / 1.05° (ASTM E1710)

1.24° / 2.29° (EN1436)



**ASTM E2832**

$R_{L2}$  (rain) compatible technology.

External beam retroreflectometer.

Free access over measurement area.