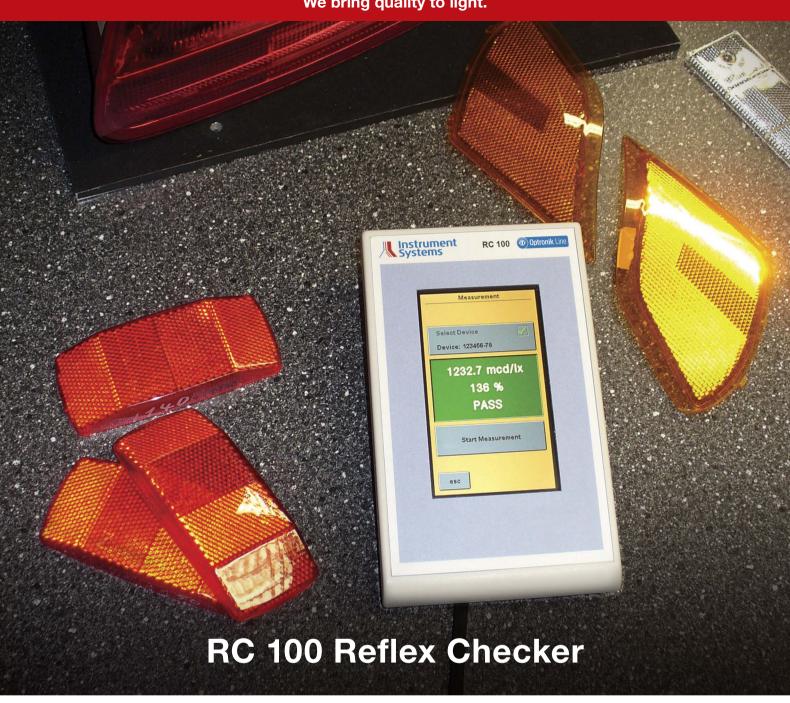
We bring quality to light.





RC 100 Reflex Checker



RC 100 total view

Rapid and simple production control for reflex reflectors

The RC 100 Reflex Checker serves for rapid testing of the retro-reflecting characteristics of retro-reflectors and retro-reflecting materials used mainly for vehicle purposes in accordance with ECE R3.

Because of its compact design it can replace extensive and time consuming measurements in the photometric laboratory with goniometer.

The RC 100 follows a relative measurement method with the aid of a reference retro-reflection standard measured under laboratory conditions.

Applications

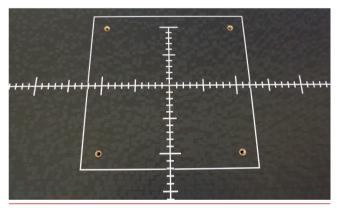
- Comparative measurement in mcd/lx
- Production control of reflex reflectors
- Supervision of the performance of injection moulding machines

Special features

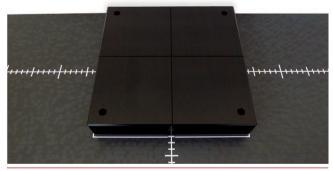
- Compact design: The RC 100 works with a measuring distance proportionally shortened to 1 meter at an observation angle of 20 angular minutes (0.333°). It is equipped with optics especially designed for simulating the conditions in the light channel proportionally. There are no special requirements referring to the installation place so that the device can be installed right at the assembly / production line, e.g. close to the injection moulding machine.
- No dark room or photometrical lab necessary: The system works independently from secondary light sources; the sample is being illuminated by an integrated powerful Xenon flash light source with extremely long life time. The triggered amplifier as well as the housing screening of the light enable the system to be used under conditions with normal workplace illumination.
- Short measurement time: There are no time consuming adjusting procedures necessary. The measurement time is extremely short – less than 0.1 sec.
- 7 The device consists of the optical housing with test distance of 1 m. At the upper part, the housing contains a photopic detector and the electronic components. The optical housing is fixed to the test table. On the test table an optional adapter plate for interchangeable sample holders are located.
- The unit is equipped with a serial interface. Via a terminal program, values can be read out for further statistical analysis.
- Optionally there are available adapter plates and adapters individually designed for specific samples.



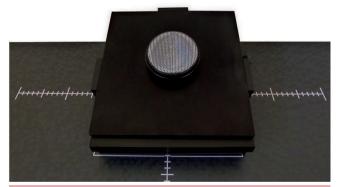
Typical test samples



Test table top



Adapter plate



Adapter with calibration reflector

Technical specification

| RC 100 Online Retroreflectometer | |
|----------------------------------|---|
| Instrument type | RC 100 Reflex Checker |
| Concept | Stand alone unit independent from PC |
| Measurement principle | Relative measurement against reference sample, geometry compensation by separate calibrations for each reflector type |
| Control | Handheld operation terminal with touchscreen and easy menu guidance |
| Measuring receiver | V(λ)- matched silicon detector |
| Reference receiver | V(λ)- matched silicon detector |
| Illumination angle | 0° |
| Observation angle | 20 angular minutes (0.333°) |
| Field of view | Approx. Ø 90 mm |
| Power supply | 90 V265 V, 50 Hz60 Hz |
| Power consumption | Max. 80 W |
| Ambient temperature | +10°C+40°C |
| Relative humidity | 1090%, non condensing |
| Dimension | W 1000 mm x H 2330 mm x D 600 mm |
| Weight | Approx. 40 kg |
| PC interface | RS 232 (to read up values via terminate programm for statistical analysis) |
| Options | Adapter base plate to fix individually designed test adapters. Individually designed adapters |

Order Information

| Article No. | Article description |
|-------------|--|
| RC 100-100 | RC 100 basic instrument as described above |
| RC 100-200 | Adapter base plate to fix individually designed test adapters |
| RC 100-XXX | Individually designed adapter based on technical sketches provided by client and calculated based on design and manufacturing effort |

Online – Retro-reflectometer RC 100 Reflex Checker with ligh source, measuring optics and handheld control unit, RS 232 serial interface. Test table for positioning an adapter plate for adapters provided by the client. Instruction manual is included.

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