

Retrometer rmm 10



The OPTRONIK Reflex-Measuring-Machine **rmm10** is a measuring system for fast measurement of the characteristics of retroreflectors, especially for automotive applications. The main application is the adjustment of molding machines and production control. In many cases, the **rmm10** can replace time-consuming measurements with goniophotometer and retroreflectometer in the light channel. This is possible due to three main characteristics: The **rmm10** is distinguished by a compact construction and works thereby with a shorter measuring distance of 1m; the instrument needs no special measuring place with a long measuring distance, but can be installed directly near the production line. The instrument is independent of secondary and scattered light: Due to the illumination of the sample by a strong flash light source, due to a triggered amplifier and the shielding housing the instrument can be used in illuminated environments and needs no dark room. There is no need of long adjusting procedures at the goniometer. After simple inserting the sample, the whole measurement is completed in less than 0.1 sec., so that the measuring time is ex-

tremely short. The instrument consists of the optical housing with the 1m measuring distance, which includes at the top the measuring head and the electronic unit. At the bottom there is a mounting plate, where the exchangeable sample holder is installed. The optical housing is on a mounting table with a height of 750 mm, so that the instrument can be operated in sitting position in the most comfortable way. Connected to the measuring head is a small, keyboard equipped hand-held unit (with illuminated display) for controlling all functions. The functional principle of the **rmm10** is based on the simulation of a 20' measuring angle with an observation angle meeting the ECE regulations. The diameter of the measured area in 1 meter distance is about 130 mm. Other kinds of measuring geo-



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