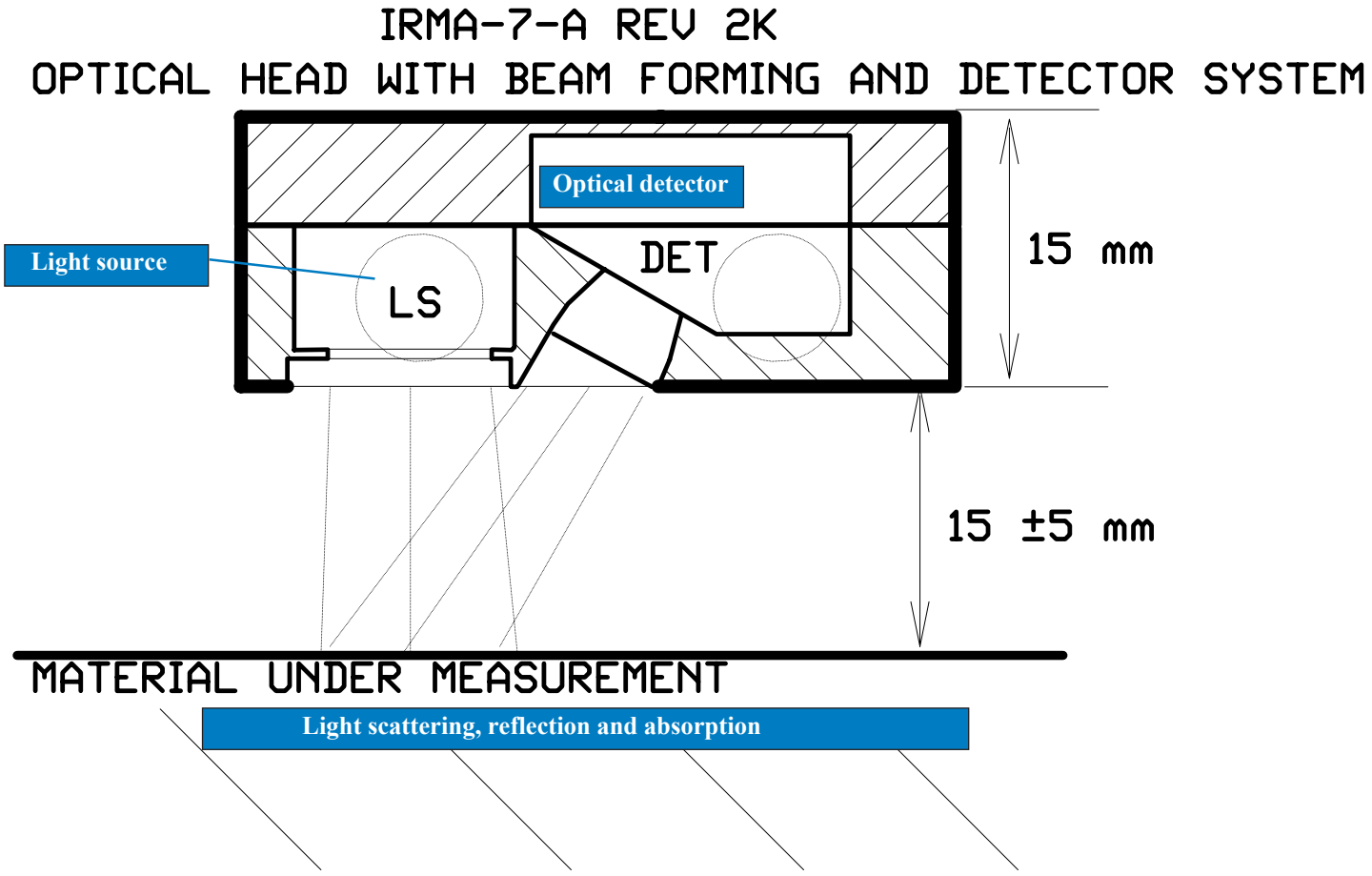
MOISTURE METER IRMA-7 MODEL A OPERATING PRINCIPLE

The moisture meter IRMA-7 model A is based on Near InfraRed (NIR) radiation absorption in the material under study. The light is sent to the optical head from the light source via an optical tube. The optical head has a mirror for deflecting the beam towards the target forming a spot of about 10 mm in diameter. A part of it is reflected away and another part is scattered inside the web. A small part of the light is emitted to the optical detector at an angle of approximately 60 degrees. Part of the radiation is absorbed and that part is compared to the reference light which is not absorbed. The absorption peak is at 1950 nm.

The light source, the optical detector and the signal processing form a highly advanced system to produce fast, reliable and stable moisture signal. The technologies used are proprietary and unique.



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