

Scientific Visual

Global leader in automated inspection of semiconductors and optical materials



Scientific Visual SA <http://scientificvisual.ch/> is the world leader for inspecting **semiconductors and optical materials** before the manufacturing processes. It allows manufacturers to avoid significant processing costs related to coring, slicing, lapping, grinding, and polishing initially defective material. Currently, defects in most of the industrial crystals are identified at a very late stage in the process. In the case of Sapphire, 7 to 20% of already processed items are rejected due to internal defects such as cracks and bubbles.



Industrial crystal production benefits from a 15% to 30% annual growth, which is fuelled by LED production, Smartphones, Watch covers, electronics, and the defense industries. Scientific Visual patented new inspection technology is disrupting the current industrial crystal process. It, therefore, generates significant interest in the market place.



The technology has been successfully tested to inspect sapphire, Gallium Nitride (GaN), Silicon Carbide (SiC), CaF₂, and Quartz crystals. For instance, GaN and SiC are highly demanded semiconductors used for power electronic components in electrical vehicles.

The company won the **Seal of Excellence** from the European Horizon 2020 project and the **Swiss Innovation Alliance award**. It has qualified in six different market segments.



In April 2020, the company won a **non-dilutive CHF2.6M Grant** from the European Horizon 2020 SME program for developing Business Line dedicated to the inspection of high-value semiconductors.



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