

A swiss company founded in 1989, Qualimatest is the leader in developing quality control equipments integrating vision systems for industrial sectors including watchmaking, medical, rail and automotive. In 1995, Qualimatest was first awarded for its innovative system for the characterization of materials using an automatic system embedding digital imaging technology. Qualimatest has never ceased since to innovate to provide its customers with the best solutions.

The sensitivity of man, the rigour of the machine



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1. New application QMTCalqueControl, the profile projector more simple more accurate.
2. New quality control device the QMTProjector-100 – Optical Equipment with high precision measurement, compact, simple and without programming.
3. QMTSound: the Hardware and software platform for acoustic and vibration analysis.



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In 2015, Qualimatest was awarded with the first price of Innovation in the Canton of Geneva...

Since many years, Qualimatest and its team have developed, in-house and with the collaboration of major schools such as HES or EPFL, many innovations in the field of digital imaging. These applications have allowed us to develop a wide range of products that perform contactless high precision dimensional measurement or aesthetic control of parts.

Could you briefly tell us about the aesthetic control?

The aesthetic quality control aims to set aside faulty parts with bumps, scratches, stains... These operations are usually carried out visually and remain highly subjective. Qualimatest has developed a hardware platform QMTSubFace, the first automatic system that respects human criteria in the aesthetic control, a particularly appreciated asset in watchmaking.

What is QMTCalqueControl application?

QMTCalqueControl is a simple measurement solution without programming, quick to implement, flexible and accessible to all. Historically, quality control was often performed with profile projectors. These devices used optical technol-

ogy and parts were drawn on tracing papers: this measurement was time consuming and imprecise. During the last 15 years, the use of computer systems has allowed the simplification of these controls through computer overlay drawings of parts after camera capture image. Nevertheless, the alignment of the «digital layer» on the piece was visually performed by the operator with a risk of error and a lack of repeatability.



«Innovation for growth.»

Laurent Brulport,
Commercial director

To increase the efficiency of monitoring, an overlay of CAD file, with detection and automatic alignment on the workpiece, is proposed since 2010. This progress has been widely appreciated by the industry but the final decision, based on the visual gap, remains the decision of the controller. The measurement of the output gap was also a top expectations of customers.

QMTCalqueControl is now available in the platform QMT Vision Inspector. It allows the automatic control of the variation between the drawing and the shape of the part.



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What are your prospects for the future?

Qualimatest are part of QMTGroup following the acquisition, at the end of 2014, of SAPHIR Company based in Barraux (France). SAPHIR are an expert in acquisition and signal processing for embedded systems, test stands and supervision especially in acoustic and vibration fields. From this complementary, QMTSound platform was born.

QMTSound allows non-destructive testing by acoustic and vibration analysis. This technology is a logical complement to QMT Vision Inspector that operates optical control. QMTSound control includes material selection, scanning signal, digital filtering, detection of transient phenomena and time-frequency analysis. QMTSound offers new features, the acoustic control or a combination of sound and vision.

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