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Press information

Top non-contact quality assurance by Mitutoyo: the new QuickScope QS-L/AF vision measuring machine

The manufacturer of dimensional measuring instruments Mitutoyo streamlines the range of Quick Scope vision measuring machines by introducing a new, highly modern system named "Quick Scope QS-L/AF", replacing various existing CNC models of the series. It boasts a high-speed auto-focus, a new 3-MP camera and a new, powerful choice of lenses.

Neuss, March 2019. "Quick Scope" is the name of a whole range of fast-operating, convenient and cost-effective manual and CNC vision measuring machines made by the Japanese manufacturer Mitutoyo. The Quick Scope series can be used for measurement in various industries for such products as molded-plastic parts, machined parts, cutting tools, and electronic components. The premium marque now complements the range by a new, powerful model by name of QS-L/AF.

It replaces a number of existing models, streamlining the QuickScope series. The new QS-L/AF has been equipped with an all-new three-megapixel CCD colour camera that provides an excellent image at a high resolution of 0.0001 mm for highly precise measuring. A likewise new high-speed autofocus function reduces measurement time and increases workpiece throughput. For all three light sources – segmented ring light, coaxial light and stage light – the Mitutoyo engineers adopted white LEDs that enhance observation performance and measuring reproducibility. The machine's measuring uncertainty is quantified as low as 2.2µm.

The newly designed 7:1 ratio zoom unit and interchangeable objectives provide an optical magnification of 0.5-7X. A working distance of 74 mm (when using the 1X objective) practically eliminates the risk of damaging the objective or workpiece by accidental collision. The QS-L/AF stage lineup comprises three sizes with an XY measuring range of 200×100 mm, 300×170 mm and 400×200 mm, respectively. A manual jog shuttle grants fast stage movement in XY direction, the Z-axis features a motorised feeding mechanism with autofocus function.

The new QuickScope QS-L/AF is supplied with the powerful vision measuring software system QSPAK-VUE that combines excellent operability with high functionality and aids customers in meeting measurement challenges. It boasts a clear interface and easy operability even for untrained staff. The additional use of the application software FORMTRACEPAK-AP can extend QSPAK capabilities to enable form assessment and analysis.

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