

Integrated scanning system UR+ with eviXscan 3D Optima+ M scanner



Automatic 3D scanning system

The Universal Robots scanning system integrated with the eviXscan 3D Optima+ M scanner is an automatic measuring unit capable of operating continuously in the production cycle.

As official partner of the Universal Robots company, Evatronix offers a system which aims to enable full automation of quality control based on 3D scanning technology on production lines compliant with industry 4.0 requirements. The obtained UR+ certification guarantees faster system implementation, which shortens return on investment.

The cooperation of eviXscan 3D scanner with cobot is possible thanks to dedicated software URCap called eviXscan 3D Scanner. It is a plug that integrates cobot software with eviXscan 3D Suite software, which is used to fully operate the 3D scanner. URCap allows the scanning process to run under the collaborative robot's control, and program this process using the cobot's teaching panel.

The UR+ application kit with Optima+ M scanner

Key features

- kit designed for continuous operation on the production line
- automation of non-contact quality control
- reduction of the operator's involvement in the whole process, which is a direct cause of cost reduction
- dedicated URCap software – eviXscan 3D Scanner
- Plug & Play operation of the cobot
- simple programming of the cobot arm movement paths

Easy to use

An operation of application kit proceeds in a Plug & Play mode. Programming collaborative robot paths is easy and does not require expertise. The user can select between different scanning modes: Single Scan or HDR, and for a series of scans can easily define the scanning parameters of individual scans.

It is also possible to use maximum potential of eviXscan 3D Suite software and calling up predefined macro commands, such as post-processing of scans or export of finished 3D models to external quality control programs.



Automatic quality control

The integration of the scanning system with the production line enables for 100% quality control and OK/NOK identification of the measured object. Analysis of production data allows for earlier identification and elimination of process errors and strategic failures of production lines. The generated measurement reports enable data archiving, which can be used for the creation of historical analyzes and direct product process tracking at every stage of production. It is also a support for future production planning.

