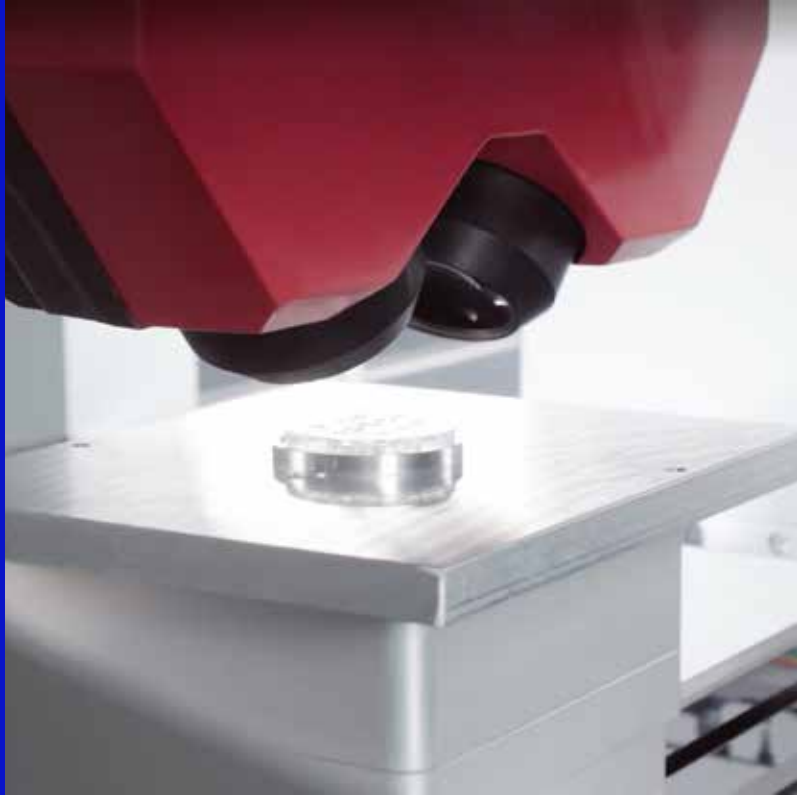
PRODUCT SHEET

Ginolis Pixie

Automated quality inspection



GINOLIS
Precision Robotics

Features

Ginolis Pixie is a standard system for automated high-speed and high-resolution optical quality inspection of medical devices, diagnostics, and micro components. Pixie can be combined with an additional motorized stage, pick and place robot or integrated statistical process control (SPC).

Speed
Pixie is equipped with a production speed measurement and analysis for inline quality inspection. Surface topography and intensity can be sampled up to 2.5 kHz at the sub-micro level.

Flexibility
We offer customized automated solutions to meet customer-specific needs. Combine with an additional motorized stage, pick and place robot or integrated statistical process control (SPC).

All surface types
Measure challenging materials and shapes such as glossy, matte, mirror-like surfaces and all colours. Also possible to measure curved and multilayered transparent surfaces.

Measurement possibilities
Dimension measurements for thickness, step height, diameter, positioning, flatness, profile, gap, contour comparison and

Pixie Specifications

Dimensions (mm)	w 695, h 890, d 800
Axis movement	2 - 5
XY range (mm)	450 x 300
XY repeatability (m	+/- 0,01
XY accuracy (mm)	+/- 0,05

Sensor Specifications	401	1201	1600
Optical profile length (mm)	4,3	11,5	16,6
Pixel size X (µm)	2,1	5,6	8,1
Pixel size Y (µm)	4	10	36
Z repeatability (µm)	0,05	0,13	0,24
Stand-off distance (mm)	8	20,6	64
Depth of field (mm)	1,1	3	5,5
Measurement speed, full depth of field (Hz)	300	500	500
Max. measurement speed, limited z-range (Hz)	800	4000	3000
Number of points/profile	2048	2048	2048
Max. slope of objects (deg)	15	20	13,5
Wavelength	VIS	VIS	VIS

Functional description

1. LCI sensor
2. Mounting stand
3. XYZ table

The operator (stand-alone Pixie) or the robot (integrated Pixie) places the subject on the mounting stand

The XYZ table moves the product under the LCI sensor that scans the subject

LCI forms a profile on the surface of the subject from which the desired features are programmatically extracted and analyzed

The operator (stand-alone Pixie) removes the analysed subject from the mounting stand, or the robot (integrated Pixie) removes it and places it on the conveyor

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