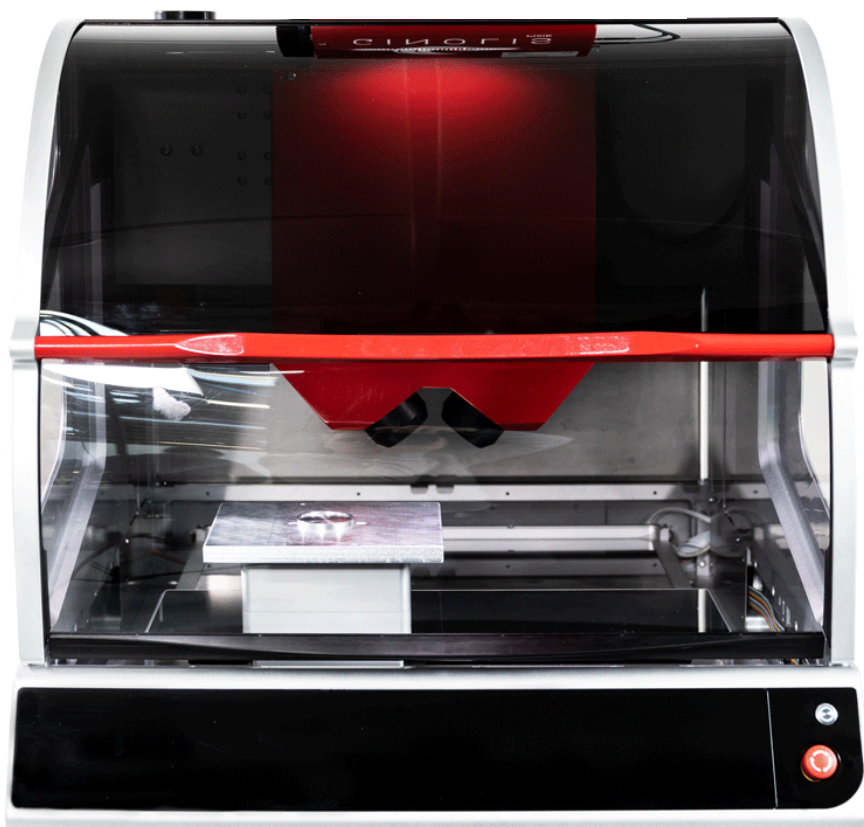
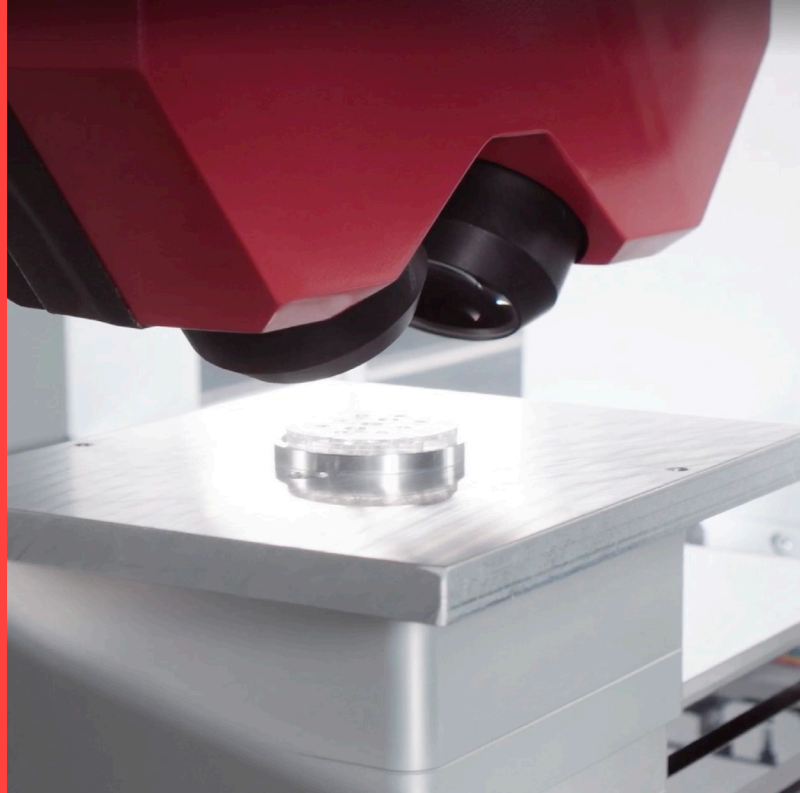


PRODUCT SHEET

# Ginolis Pixie

Automated quality  
inspection



# 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

## 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
Z-range (mm)	50

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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