

PRECISION GLASS INSPECTION



ECCO 95.015G GLASS SENSOR TO MEASURE FLAT TRANSPARENT OR SPECULAR SURFACES



Delivering superior 3D data quality in a compact design, the **ECCO 95.015G** has been developed to scan flat glass and specular, highly reflective surfaces. Combining our reliable **ECCO 95** sensor technology with an optimised lens and optics, it provides a high-accuracy, high-resolution, high-speed scanning solution.

INNOVATIVE 3D GLASS SCANNING

Key features

- Designed specifically to measure glass and specular surfaces
- High-speed 3D scanning
- Superior 3D image quality
- Ultra-high-resolution imaging
- Economic and compact

FULLY CUSTOMISABLE GLASS INSPECTION

SOFTWARE

SENSORS

Get all the benefits of our **ECCO 95** range – including compact size, high speed, accuracy and reliability – with optimised technology that delivers superior 3D data quality for glass and specular surfaces.



The ECCO 95.015G offers the flexibility to use the

SmartRay API, with Studio 4, other third party

software or integrate with your own software

for a completely customisable solution.



SmartRay API (C / C++) Studio 4 3rd Party Drivers: MVTec HALCON SAC Coake 7 Matrox Imaging Library (MIL) NI LabVIEW

KEY SPECIFICATIONS

Typical field of view ¹ (near mid far)	11 mm 12 mm 11 mm
Typical measurement range ¹	5.6 mm
Typical lateral resolution ¹	6.0-6.8 μm
Typical vertical resolution ¹	0.42-0.54 µm
Stand-off distance	23.5 mm
Mounting distance	65 mm
Laser wavelength	450 nm (brilliant blue laser)
Laser class (standard optional)	3R
Maximum points/3D profile	1920
Mounting	Sensor mounted at 21° pitch angle (sensor is shipped with mounting adapter)
Weight	Approx. 775 g (includes mounting adapter)
Z-Repeatability ^{2.4}	0.15 µm
Z-Linearity ^{3.4}	0.015%
Part number	3.004.191 (laser class 3R)

1 Typical values can vary up to 5% due to optical tolerances

2 Experimentally assessed by scanning a fixed measurement target 4100 times successively within short time interval. No post-processing filters applied

3 Z-Linearity calculated as a variation of "bias" (reference value vs. measured value) over the measurement range

4 Measurements performed on a SmartRay standard artifact which is an aluminium flat matt surface painted matte white



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