

Gocator 3210

3D SMART SNAPSHOT SENSOR

Gocator 3210 provides a large field of view and measurement range, letting you perform quality inspection on multiple features with a single snapshot. The all-in-one smart snapshot sensor offers high resolution for accurate measurements down to 35 μm^* using a stereo camera and an industrial projector to deliver long lifetime and uniform lighting throughout the measurement volume.

- » 3D POINT CLOUDS IN A SINGLE SNAPSHOT
- » ACCURATE 3D MEASUREMENT WITH BLUE LIGHT PROJECTION
- » INDUSTRIAL DESIGN FOR LONG LIFE

* Based on VDI/VDE 2634, Part 2



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HIGH ACCURACY

The sensor's 2-megapixel stereo camera provide accurate, full-area measurements suited for analyzing many features at once with a single exposure. With snapshot sensors, the target is stationary during acquisition effectively minimizing the cost of expensive motion system components (such as encoders) and the associated errors due to vibration.

INLINE INSPECTION READY WITH FASTER PROCESSING

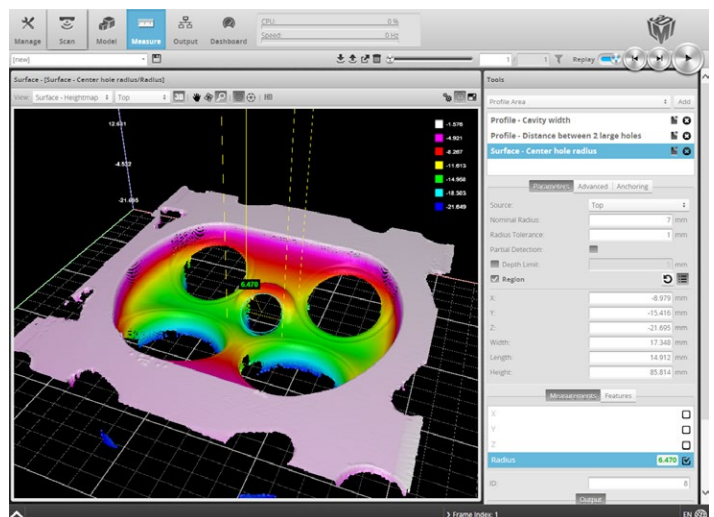
The sensor's new dual core controller and onboard hardware acceleration allows for inline production speeds. Using Gocator Accelerator (GoX), the Gocator 3210 runs up to 4x faster than sensor only operation to achieve inline scan rates of 4 Hz.

EASY TO USE

Gocator's built-in GUI provides an intuitive setup experience, using any web browser, computer or operating system. No additional software is required.

INDUSTRIAL PACKAGE, COMPACT, AND LIGHTWEIGHT

Gocator's rugged IP67 housing, small form factor, and light weight make it ideal for fitting into small spaces and mounting on robots.



Gocator's browser-based graphical user interface showing the scan coverage of an automotive cylinder head

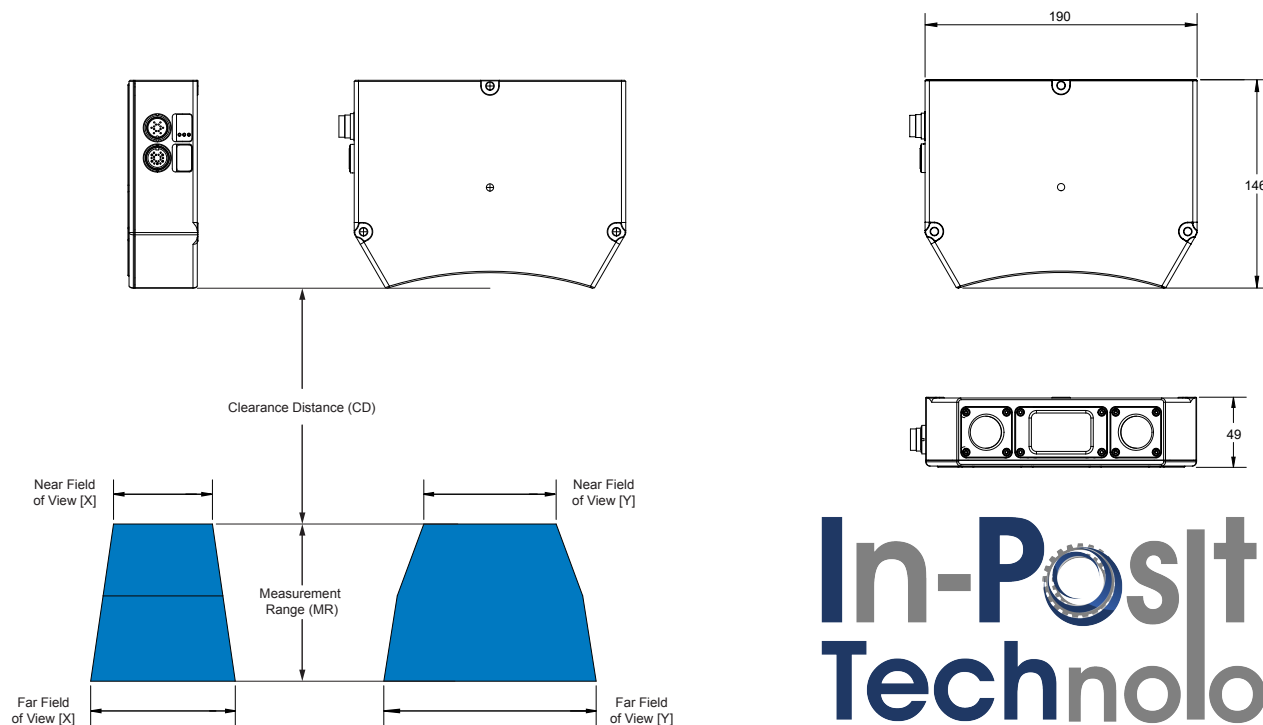
INDUSTRIAL PROJECTOR FOR LONG LIFETIME

The sensor's LED light source makes it easier to work with than lasers. The bright LED and industrial design enables shorter exposures so you get measurements faster with an expected lifetime of up to 10 years of continuous operation.

| Gocator 3210 Specifications | |
|------------------------------|--|
| Scan Rate (Hz) | 4 |
| Imagers (megapixels) | 2 |
| Clearance Distance (CD) (mm) | 164.0 |
| Measurement Range (MR) (mm) | 110.0 |
| Field of View (mm) | 71.0 x 98.0 - 100.0 x 154.0 |
| Repeatability Z (µm) | 4.7 |
| Resolution XY (mm) | 0.060 (CE) - 0.090 (FE) |
| VDI/VDE Accuracy (mm)* | 0.035 |
| Dimensions (mm) | 49 x 146 x 190 |
| Weight (kg) | 1.7 |
| Light Source | Blue LED (465 nm) |
| Interface | Gigabit Ethernet |
| Inputs | Differential Encoder, Trigger |
| Outputs | 2x Digital Output, RS485 Serial (115 kbaud), 1x Analog Output (4 - 20 mA) |
| Input Voltage (Power) | +24 to +48 VDC (50 Watts); Ripple +/- 10% |
| Housing | Gasketed Aluminium Enclosure, IP67 |
| Operating Temperature | 0 to 45 °C |
| Storage Temperature | -30 to 70 °C |
| Vibration Resistance | 10 to 55 Hz, 1.5 mm double amplitude in X, Y and Z directions, 2 hours per direction |
| Shock Resistance | 15 g, half sine wave, 11 ms, positive and negative for X, Y and Z directions |

| Software and Built-in 3D Measurement Tools | |
|--|--|
| 3D Feature Tools | Openings (holes, slots), Cylinders, Studs (threaded and non-threaded), Plane |
| 3D Volumetric Tools | Volumes, Areas, Bounding boxes, Positions (min, max, centroid), Ellipses, Orientations |
| Scanning Software | Browser-based GUI and open source SDK for configuration and real-time 3D visualization. Open source SDK, native drivers, and industrial protocols for integration with user applications, third-party image processing applications, and PLCs. |

* Based on 2634, Part 2



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