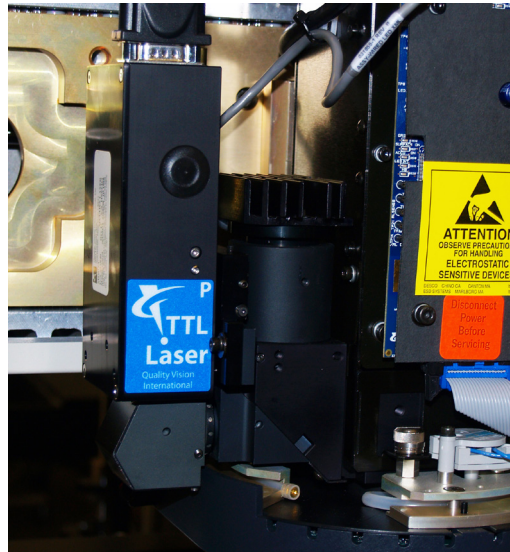


Flash TTL Laser

- **TTL convenience** – Flash TTL laser is coaxial with system optics, allowing use for measurement or as a laser pointer
- **Use with other sensors** – Switch instantaneously between video and laser measurements
- **Long working distance** – Scan surfaces without risk of striking part or fixture
- **Expansive measuring range** – Use the Flash TTL laser throughout the system's complete travel range
- **Auto tracking** – The laser will dynamically adjust the Z-axis to track part contours automatically
- **Laser lens included** – A 2x laser lens that enhances laser and video performance is included

Through-the-Lens Laser for Point Focus and Surface Scanning





Technical Specifications¹

Available for	Any OGP® SmartScope® Flash/CNC dimensional measurement system	
Configuration	Standard (with 2.0x Laser Lens)	Optional (with 5.0x Laser Lens)
Replacement lens	2.0x	5.0x
Working distance	38 mm	19 mm
Measuring range ²	500 µm	80 µm
Capture range ³	±3 mm	±400 µm
Triangulation angle	14°	35°
Spot size ⁴ (nominal)	8x6 µm	3x1.2 µm
Resolution ⁵	0.4 µm	0.2 µm

Footnotes and Definitions

¹Specifications are nominal for TTL lasers installed on OGP systems when used in the specified operating environment.

²Measuring Range tracks within system's Z-axis travel range.

³Capture Range is surface dependent.

⁴Spot size at best focus.

⁵Using high quality specular surface, 1σ.

Measuring Range - The Z-range over which the performance of the sensor is linear and calibrated. The measuring range lies within the capture range.

Capture Range - The Z-range over which there is no uncertainty about which direction the surface lies, but a portion of which may be non-linear and uncalibrated. If the surface is within the capture range, the measuring system will drive the sensor until it is within its measuring range.



Safety Considerations

This system is classified as a Class II laser device by IEC 825 (2001). **Do not stare directly into the laser source.**



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