



NORLAND PRODUCTS INCORPORATED

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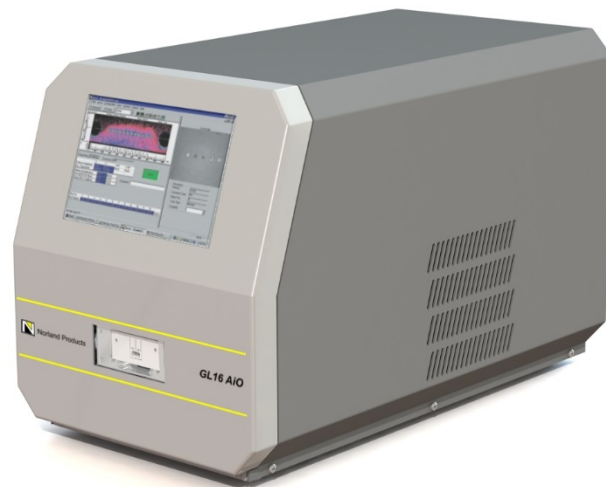
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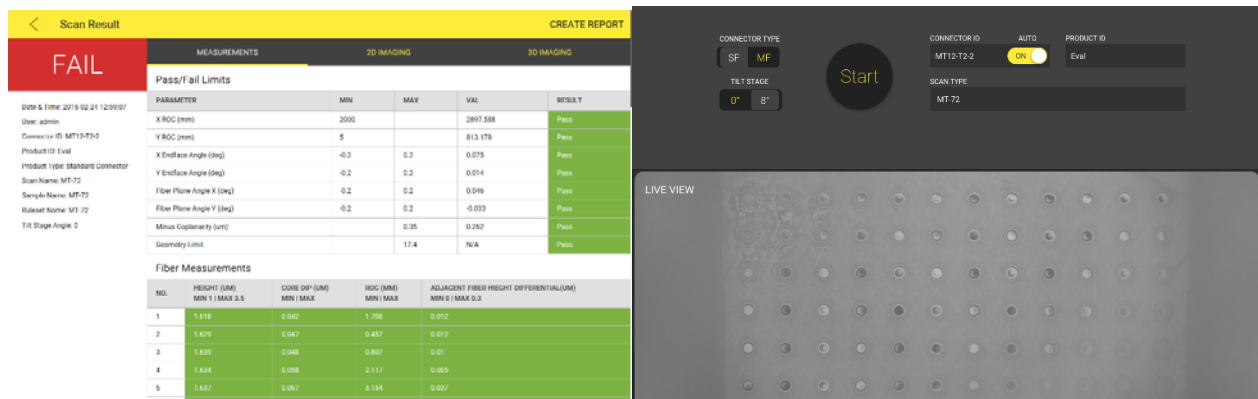
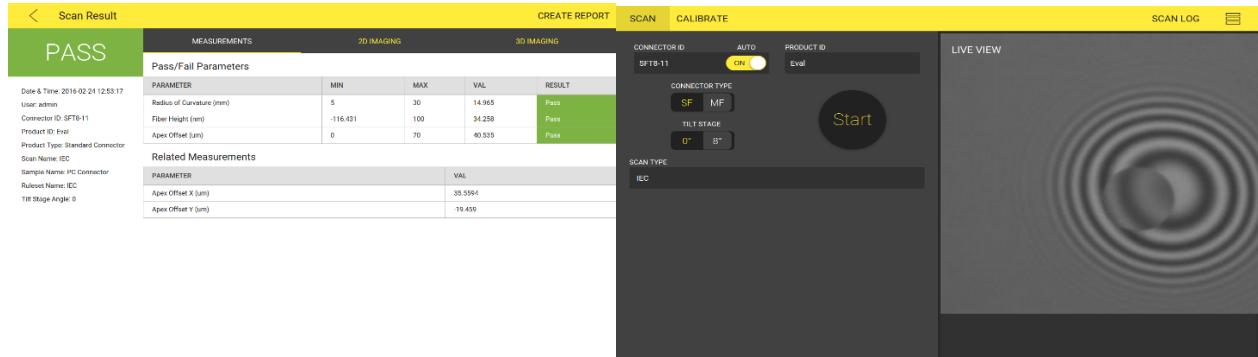
GL16 - AiO Norland End Face Geometry Instrument

Using the latest technology in precision optics, high-speed cameras, programming, and display, Norland Products has developed the GL16 – AiO End Face Geometry Instrument. This instrument is designed as the ultimate tool for analyzing the end face geometry of single and multifiber connectors, and includes support for recent industry developments such as 16- and 32-fiber MT product and Geometry Limit measurement. The Norland GL16 system achieves accuracy, repeatability, reliability, and ease of use that far exceeds the requirements of the industry for this type of quality control instrument.



Everything has been fully automated in this compact system. With all electronics and software required for calculation and control contained within the instrument, there is no need for an external computer system. This also insures higher reliability due internal computing system stability (not subject to constant updates or virus-protection activity). An extensive scanning range eliminates the need for focusing prior to measurement. An Ethernet connection is provided for access to the system measurement data as well as for remote diagnosis and software updates. A USB 3.0 port allows for external mouse, keyboard, or barcode scanner use. There are no operator adjustments necessary nor knowledge of interferometry needed. NIST traceable standards provide confirmed calibration of magnification and tilt stage operation, insuring accuracy of all measurements. Our patented True Angle™ connector mounts with integral aperture plate and pins allow easy insertion of the connectors into the mount and provide for highest accuracy, specifically, of surface angle results.

NORLAND GL16 - AiO End Face Geometry Instrument



Features:

- Fully automated interferometric system for analyzing multifiber and single fiber connectors
- Noncontact closed-loop piezo Scanning White Light Interferometry (SWLI) measurement
- Compliant with Industry Specifications for measurement process and Pass/Fail determination
- Embedded computer system with Linux OS
- Browser-based application supporting local (via front panel 7" touch screen display) and remote (via Ethernet connection) operation
- High-resolution, high-speed camera for fast, accurate, and repeatable measurements
- Software-controlled tilt stage (for toggling between 0 and 8 degree angle)
- NIST traceable standards for calibration of system magnification and tilt stage
- No focusing required prior to scanning (due to long scan range)
- Analyze up to 72 fibers in one scan.
- Supports 16/32 fiber MT product
- Measures MT-12 connector within 8 seconds
- Concise measurement result display, showing only which end face parameters, if any, have not passed
- Full scan information available on screen, as export to CSV file, in SQL database, or as a scan report
- 3D graphical representation of end face
- No vibration damping table required

GL16 - AiO Specifications

Optical resolution:	2.2 microns
Field of View:	4.2mm wide by 2.4mm high
Scan range:	80 microns
Instrument Dimensions (W x H x D):	10 in x 11 in x 18 in
Power Requirements:	120/240VAC, 50/60 Hz @ 1A
Weight:	23 lbs
Total Measurement Time (Single-fiber):	3 seconds typical
Total Measurement Time (Multifiber):	8 seconds typical

Measurement Performance:

	Measured Parameter	Range	Measurement Specifications	
			Repeatability*	Reproducibility**
	Radius of Curvature	3.0 to flat (mm)	0.15%	0.30%
Single Fiber	Apex Offset	0 to 500 (µm)	0.3µm	0.7µm
	Fiber Height	-35 to 35 (µm)	1.0nm	2.0nm
	Polish Angle	0 & 8 +/-0.5 (deg)	0.002°	0.015°
	Key Error	-90 to +90 (deg)	0.002°	0.03°
Multi- Fiber	Fiber Height	0 to 35 (µm)	0.005µm	0.01µm
	Ferrule Surface Angle (X/Y)	0 to 0.5 (deg)	0.001°	0.01°
	Minus Coplanarity	0 to 35 (µm)	0.003µm	0.005µm

* Repeatability - product undisturbed for 50 consecutive measurements - 1 sigma values

** Reproducibility - product reinserted for 50 consecutive measurements - 1 sigma values

TURNKEY SYSTEM – The Norland GL16 - AiO is a complete “all-in-one” system, fully integrated with a high speed computer and touch panel display.

For A Personal Demonstration please contact us at 609-395-1966 or

by email to: Sales@norlandproducts.com



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