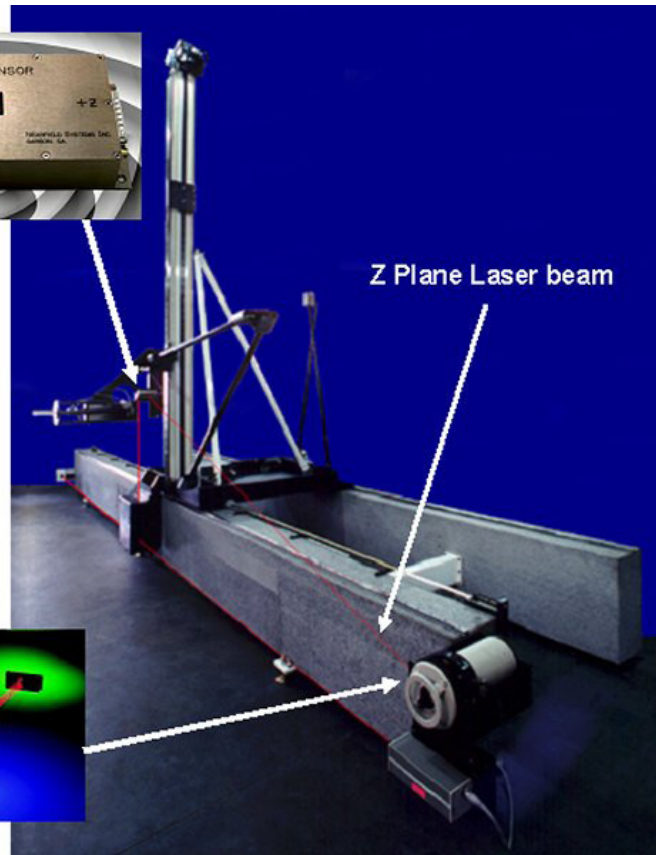


## NSI-OP-5908

### Z Plane Laser Subsystem



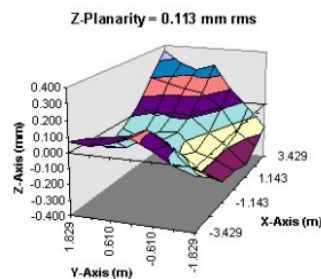
#### DESCRIPTION

The Z-Plane Laser Measurement System consists of a rotating Z-plane laser installed at the base of the scanner, and a Z-plane sensor mounted on the probe antenna platform at a 45-degree angle. The Z-plane sensor is connected by cable to the DSP interface unit that supplies the power and receives the processed photodetector information.

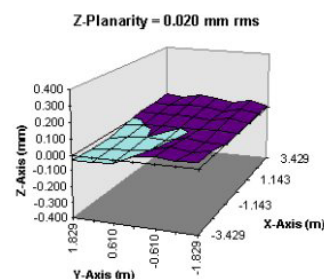
Knowledge of the scan plane can be an important input for your near-field error budget since imperfections in the scan plane contribute to excessive gain and sidelobe errors. With the NSI-OP-5908 subsystem installed on your scanner, the scan plane flatness can be measured to within 0.002" or less depending upon the size of your scanner. With the probe mounted to a Z-axis translation stage, NSI correction software insures that your probe deviates by no more than 0.002" from a flat plane, or better, depending on the scanner size

#### CAPABILITIES

Planarity Uncorrected



Corrected Scan Plane



#### FEATURES

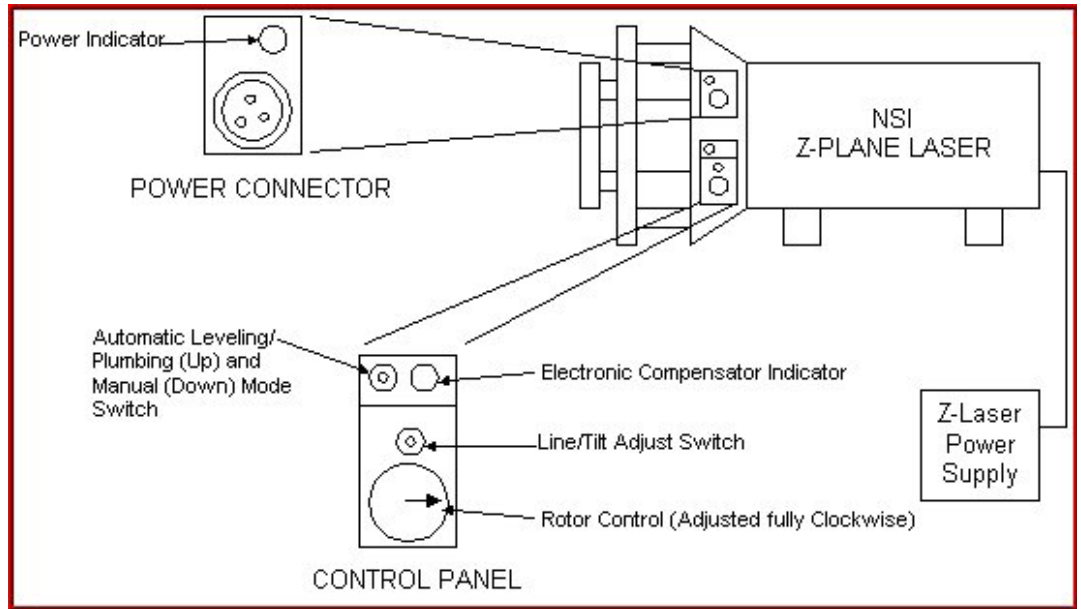
- Improves Z planarity
- Includes Z-plane sensor, Z-plane laser, DSP interface unit and software (included with NSI-OP-5929 Measurement System)
- Efficient approach to update the Z plane correction table to dynamically correct for Z position error during scanning

NSI-OP-5904

SPECIFICATIONS	
X-position accuracy	0.001" (0.025mm)
Y-position accuracy	0.001" (0.0025mm)
X-axis straightness accuracy	0.002" (0.050mm)
Y-axis straightness accuracy	0.002" (0.050mm)
XY-axis laser beam orthogonality	2.5 arcseconds
Maximum axis velocity	20 ips (508 mm/sec)
Maximum optical range	40m

NSI-OP-5906

SPECIFICATIONS	
Accuracy	0.001" (.025mm)
Range	0.4" (10mm)
Interface connector	DB25(m)
Mounting	Four (4) 0.154" diameter thru holes



**DIMENSIONS**

- ◆ Width - 52" (1.3 m)
- ◆ Depth - 19" (0.5 m) (excluding probe)
- ◆ Height - 59" (1.5 m)

**ORDERING INFORMATION**

Please contact the NSI Sales department to order this product.

**Nearfield Systems, Incorporated**

19730 Magellan Drive, Torrance, CA 90502, USA, Tel: 310.525.7000, Fax: 310.525.7100  
 Email: sales@nearfield.com. Visit our website: www.nearfield.com