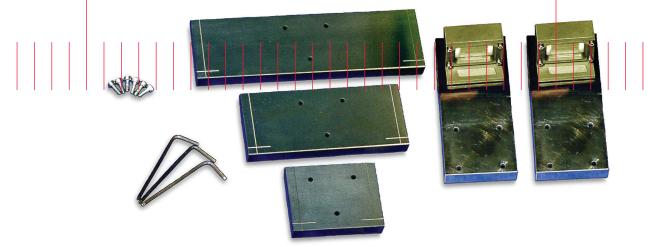
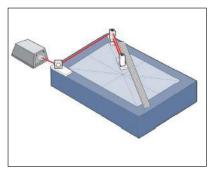
Keysight Technologies 55282A Flatness Accessory Kit

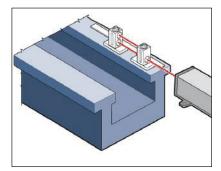
Data Sheet





The following specifications assumes the Keysight Technologies, Inc. 5530 Laser Calibration System is in used, and the temperature of all optical components is stabilized in the range 15° C to 25° C. Values do not include effects of surface cleanliness or operator positioning repeatability.





Flatness measurement

Way Straightness measurement

Maximum range

Up to 15 m (50 ft)

Accuracy

±0.2% of displayed value

Foot spacing dimension	Resolution (per step)
50.8 mm (2 in)	0.002 μm (0.06 μin)
101.6 mm (4 in)	0.003 μm (0.12 μin)
152.4 mm (6 in)	0.005 μm (0.18 μin)

Reference plane accuracy

The uncertainty of a surface plate flatness measurement is bounded by two parallel planes separated by the values below:

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Lateral offset and flatness range

The combination of lateral offset and maximum flatness deviation must not displace the reflector more than ±1.0 mm from the beam path in any direction.

Components included in the 55282A flatness accessory kit		
Description	Quantity	
50.8 mm (2 in) base	1	
101.6 mm (4 in) base	1	
152.4 mm (6 in) base	1	
Hardware kit with hex keys	1 set	
Flatness mirrors	2	

Related Literature	
Publication title	Publication No.
Keysight 5530 Laser Calibration System Brochure	5989-9354EN
Keysight 5530 Laser Calibration System Data Sheet	5989-9712EN
Keysight 5530 Laser Calibration System Flyer	5989-9707EN
Keysight 5530 Laser Calibration Measurement Reference Guide	10747-90077

Basic Equipment

Keysight 5530 Laser Calibration System Keysight 55281A Angular Optics Kit Keysight 55282A Flatness Accessory Kit

The 55282A flatness accessory kit together with the 55281A angular optics kit makes flatness and way straightness measurements. Flatness measurements are a series of angular measurements made along a pattern of lines. These measurements document and analyze in three dimensions any flat surface, such as a surface plate or machine bed. Way straightness measurements are a series of angular measurements made in a single line to document and analyze the straightness of solid objects, such as machine tool ways and master straight edges.

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