

### METROLOGICAL TESTS

# Compact profilometer

### NANOVEA PS50

Nanovea PS50 is a contact-less profilometer, suitable to scan profiles and areas of a surface by correlation of a x-y position of a moving sample table, with a z reading of a chromatic confocal sensor.

Chromatic confocal technique uses white light filtered through a series of lenses with high degree of chromatic aberration.

As a result, different wavelengths focus at different distances, creating a vertical measurement range.

When the surface of interest is within measurement range, a single wavelength is in focus, and is returned through the pinhole accessing the CCD detector, and determining a height reading in the instrument.

Resulting surface reconstruction is suitable for a variety of uses, spanning geometric control, roughness and texture measurement, morphology evaluation.





## **Specifications**

#### PS3 OPTICAL SENSOR

- Vertical range: 1100µm
- Can be extended up to 25mm by optional sensors
- Working Distance: 12mm
- Lateral accuracy: 2µm
- Height repeatability: < 5nm</p>

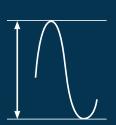
#### X-Y MOTORIZED TABLE

- Scan range: 50 x 50mm movement
- Resolution: 0,1µm
- Max sample weight: 8 kg

ROUGHNESS & FINISH	
TEXTURE & GRAIN	
GEOMETRY & SHAPE	
STEP HEIGHT & THICKNESS	
VOLUME & AREA	
PLATNESS & WARPAGE	



X - Y Scan Area 50 x 50 mm Motorized



Height Range 110 µm to 25 mm





Desktop Dimensions 38 x 33 x 43 cm

Scan Speed 20 mm/s