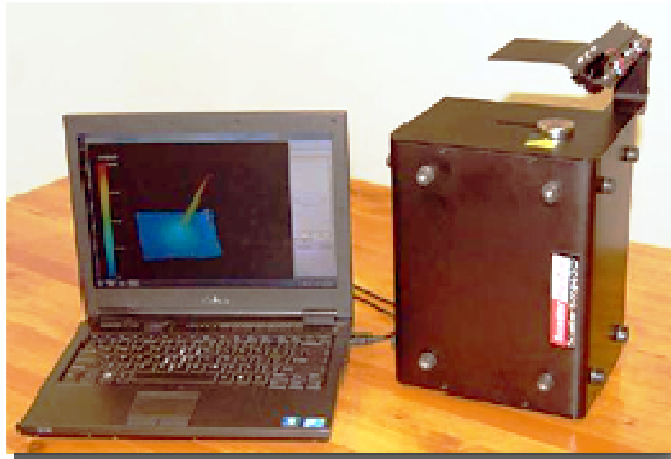


GHOLOGRAPHIC COMPANY

Measurement System (Metrology)

Think of us as part of your Measurement Team.



Benefits

- **Easy to Use**
- **University/Industry Kit**
- **24 X 7 Support**
- **Technical Support from Highly Experienced Professional**

Products

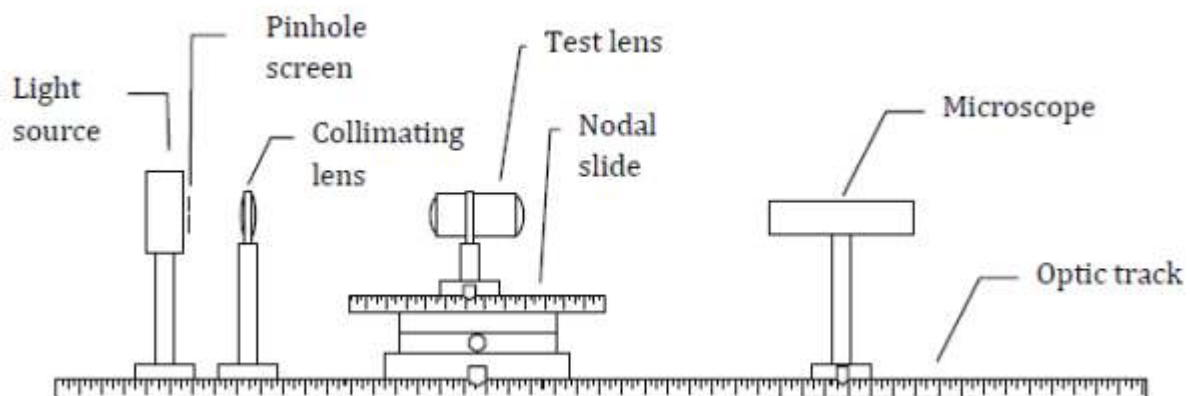
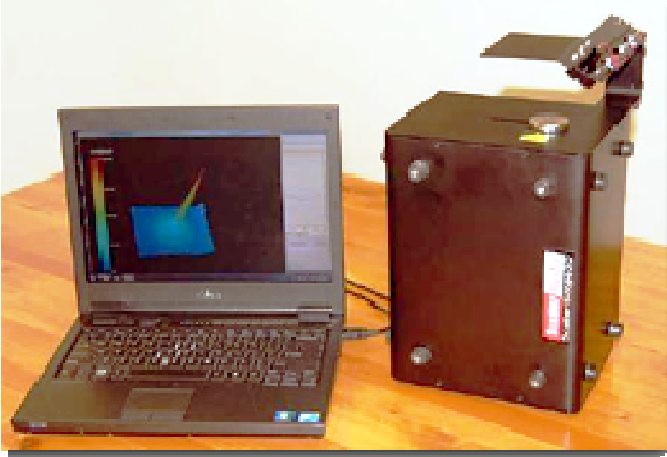


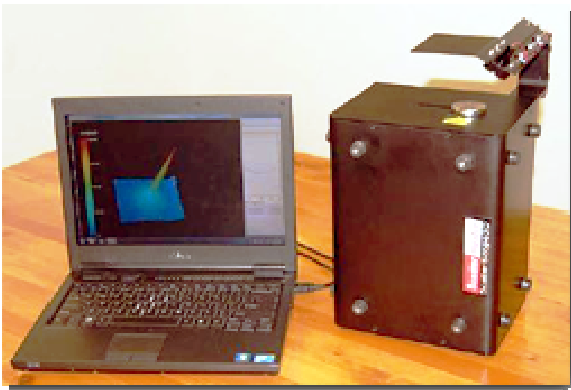


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SCATTERSCOPE 3D

The ScatterScope3D™ is a revolutionary new instrument for real time process control and quality control testing of surface texture and roughness, degradation, and for testing surfaces for water and environmental contamination. The ScatterScope3D is the first scatterometer portable enough to use directly on the assembly line. The unit is accurate and offers extremely fast results, offering a complete test in under a minute for both transmissive and reflective measurements. This allows you the ability to test multiple samples instead of just one for better quality control. The ScatterScope's ease of use combined with the portability of the unit is a great alternative to other methods of surface testing.



ScatterScope3D Specifications

Mechanical

Weight 10 lbs

Dimensions w/o computer 11" L, 8.25" W, 6" H

Electrical Requirements

Computer 120 to 240 VAC typical

System USB port to computer

Optical

Measurement Lasers 635 nm wavelength, less than 1.0 mW power

Viewing LED Allows reflective sample area to be viewed.

Software

ScatterMaster Compatible with XP, Vista and Windows 7.

Measurement and Analysis

Illuminated Area 4.5 mm diameter circle.

Measurement Time 16 to 28 seconds – depending on dark level setting

Dynamic Range 106/1

Noise Varies from 10-2/sr to 10-3/sr by angle

Uncertainty +/-10% for diffuse reflectors

Repeatability +/-5% when 10X or more above the noise floor

Analysis HTML reports are generated automatically.

Data Storage

Numerical Results Stored in CSV text files (compatible with Excel)

Pictures Stored in jpg, tif format

Lens Testing System

Lens quality is more important now than ever, due to the ever-increasing number of megapixels found in today's digital cameras. Frequently, the resolution of your digital photos is actually limited by the camera's lens — and not by the resolution of the camera itself. However, deciphering MTF charts and comparing the resolution of different lenses can be a science unto itself. we provide fundamental concepts and terms used for assessing lens quality.

Measurement parameter

Resolution

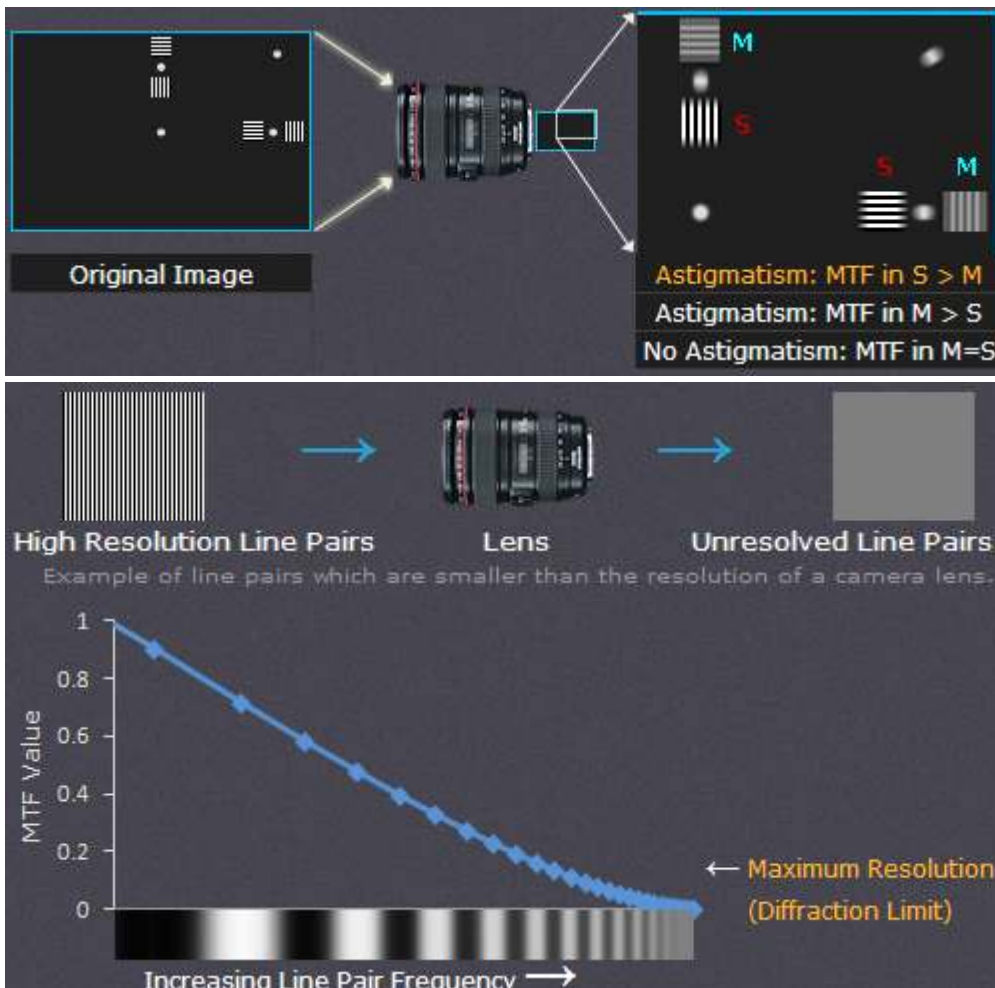
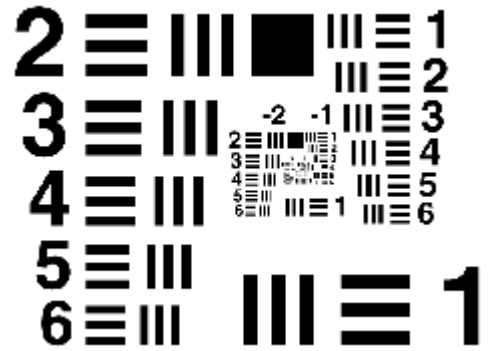
Sharpness

MTF

FOV

Distortion

Astigmatism



Focal Length Measurement

You want to know the exact focal length of a lens because if you pay for a 400mm lens, it's nice to know you have a 400mm lens, not a 370mm lens. In fact most lens makers will tell you that the focal length marked on a lens is $\pm 5\%$. That means your 400mm could be as short as 380mm and still be within spec.

lens is surrounded by air or vacuum (refractive index 1.0), the focal length is the distance from the principal point to the focal point of a lens.

Measurement parameter

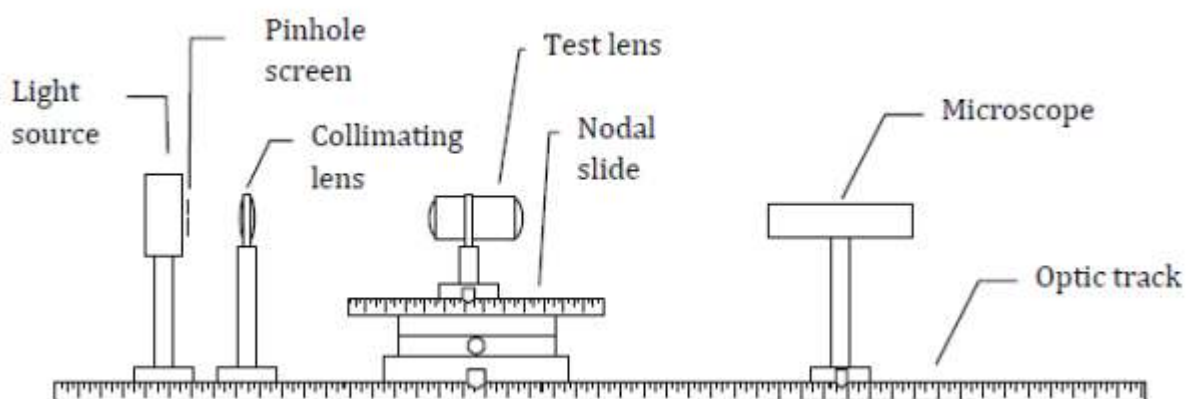
Focal Length

F- Number

Diameter

Edge Thickness

Centre Thickness



AutoCollimator

Autocollimator is a sensitive, highly accurate Optical Instrument with a combination of a Telescope and collimator for precision alignment, detection of angular displacements & verification of angle standards.



Micro-optic Autocollimators use a micrometer arrangement for the measurement of the image cross line position with reference to the reticule eyepiece cross line. These are meant for fine and accurate measurements within few arc seconds.

Electronic Autocollimator use a CCD camera to detect the position of the image and eyepiece cross lines. These are for highly precise angular deviation measurements or for calibration.

Precision autocollimators are used in industrial and manufacturing environments for precision alignment of mechanical components, the detection of angular movement and angular monitoring over time and to ensure there is no angular error in a system and to ensure compliance with angle specifications and standards.

Model	GHACT-01	GHACT-03	GHACT-04	GHEACT
Resolution	3 Secs	1 Sec	0.5 Secs	0.10 Secs
Accuracy over 1 Minute Range	6 Secs	2 Secs	1 Sec	0.5 Secs
Accuracy over full Range	30 Secs	10 Secs	5 Secs	2 Secs
Measurement Axis	Single	Dual	Dual	Dual
Range of Measurement	30 Minutes	20 Minutes	10 Minutes	10 Minutes
Readout	Micrometer	Micrometer	Micrometer	Software
Magnification	16X	24X	48X	16X
Field of View	60 Minutes	40 Minutes	20 Minutes	20 Minutes
Clear Aperture	26 mm	36 mm	56 mm	26 mm
Max working Distance @ half field of view	3.0 Mts	4.5 Mts	9.0 Mts	9.0 Mts
Power	220 V, 50 Hz	220 V, 50 Hz	220 V, 50 Hz	220 V, 50 Hz

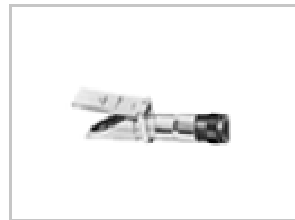
Michelson Interferometer

It is Lab Experiment instrument for college and universities. To Determine and observe optical Interference & Determine the wavelength of light source.



Refractometer

Gholographic Company, is a professional company which sells all kinds of refractometers, mainly including Hand Held Refractometers, Digital refractometers, Abbe refractometers, Gem refractometers and Digital Gem Refractometers. Our Products are not only facing to domestic market, but also to overseas market, especially Europe, Australia and America. Through several years of exporting refractometers to many countries, we have earned good reputation in this line. We insist on developing new type of refractometers to meet the satisfaction of our customers.



Digital Refractomete...

Digital Refractomete...

Digital Refractomete...

Digital Refractomete...



Gem refractometer RI...

Gem refractometer

Digital Gem Refracto...

Tradicional Gem Refr...



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