# Form Talysurf PGI 1240

**PRODUCT** 

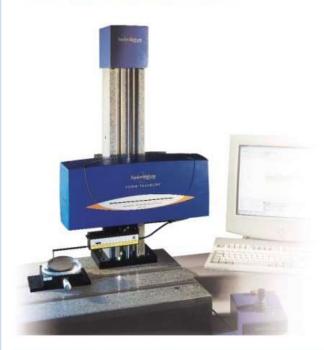
# Precision form & surface finish measurement for aspheric optics

The Form Talysurf PGI 1240 from Taylor Hobson is a premium specification measurement system for the small to medium sized aspheric optics market. It is designed for applications where optimum component quality and consistency cannot be compromized.

## PGI 1240 - A new generation of excellence

At Taylor Hobson we are proud of our reputation as the solution provider of choice within aspherics metrology. The Form Talysurf has evolved over the past 20 years, delivering continuous improvement for our customers. The PGI 1240 Aspherics Measurement System represents a new level of performance for applications such as:

- Diamond-turned or Ultra-precision ground molds for plastic or glass optics
- · Aspherics for laser applications
- · Digital cameras, projectors, etc
- . IR & Diffractive optics up to 200mm diameter



#### Designed to meet research & production needs

Ultra-high precision processes such as Single-Point Diamond Turning allow aspheric lenses to be manufactured with form tolerances down to small fractions of  $\lambda$ . To achieve such levels of precision, metrology must be fully integrated with machining.

Form Talysurf PGI 1240 delivers this capability by directly exporting measurement results back to the machine tool, creating a corrective 'feedback loop'. New custom styli expand the range of applications which can be measured using the PGI 1240.

### PGI 1240 has industry leading specifications

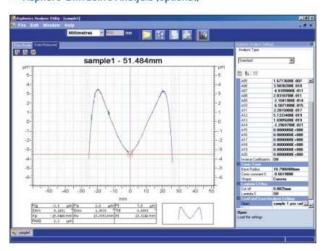
The Form Talysurf PGI 1240 has been developed specifically for the optics industry. Every aspect of manufacture is to the highest possible level which results in unparalleled system performance.

- 200mm Traverse unit with 0.11µm \ 200mm straightness
- 12.5mm Gauge range, 0.8nm vertical resolution
- 50mm Gauge range possible with special styli
- 1nm RMS noise floor provides market-leading optics surface finish measurement capability
- Extensive Range of Optional Accessories, including styli for demanding applications

#### Aspherics Analysis Software

Taylor Hobson's recently launched Aspherics Analysis Software incorporates a number of new features expressly designed to meet the needs of Aspherics Optics Manufacturers, including:

- · Aspheric Form Analysis
- User Selectable Radius Optimisation and λs Filter
- · Report Generation Capability
- SAG Tables
- Astigmatism Analysis
- Derived Coefficients Module (optional)
- · Asphero-Diffractive Analysis (optional)



For more details of the Form Talysurf PGI 1240, please contact your local Taylor Hobson sales agent, or go to our website.



