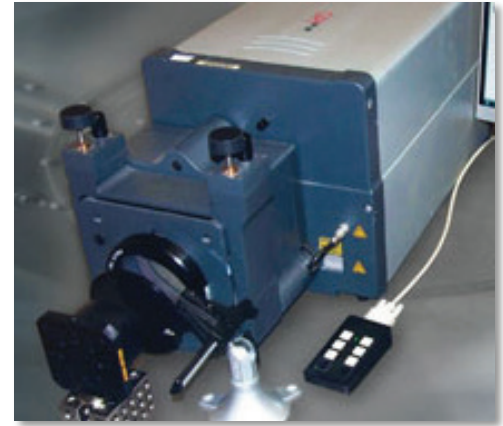


Typical Upgrade Specification

System Overview

Measurement Capability	Measures surface and transmitted wavefront
Measurement Techniques	Vibration Tolerant Phase Shifting interferometry
Alignment System	2-spot with reticle with 2° capture range
Test Beam Diameter	4 inch (102 mm)
Optical Centerline	4.25 in (108 mm)
Laser Source	Un-stabilized 633 nm HeNe, Class IIIa
Camera Resolution	1000 X 1000 pixels
Shutter Speed – shortest	20 µs
Digitization	10 bits
Image Resolution	~400 µm over entire FOV (Optically Limited)
Image Distortion	Up to 2% over entire focusing range
Focus Range	±2 meters
Computer & Software	PC, any Windows® 64-bit OS, REVEAL software
Mounting Configurations	Horizontal or Vertical
Accessories	Accepts industry standard bayonet
Physical (L x W x H)	Varies
Weight	Varies



Data Acquisition and Analysis Software

Instrument control for data acquisition, and robust algorithms to create reliable phase maps are the foundation of interferometers. And just like all Äpre Instruments interferometers, industry standard analysis and a unique built-in report writer convert data into information in 6 seconds, to quickly improve and control your process.

The 64-bit architecture easily supports 4-Megapixel acquisition and its modular construction means robust, reliable performance. And running on any 64-bit Microsoft® OS it's on an operating system your IT department will endorse.

REVEAL™

Performance

RMS Repeatability	<0.5 nm RMS 2σ – with NO averaging
RMS Wavefront Repeatability	<0.4 nm RMS 2σ – with NO averaging
Maximum Fringe Resolution/ Slope	>1.5 Fringes/mm or >150 fringes across the aperture
Retrace Error @ Maximum Fringes	~0.13 waves

Operating Environment

Temperature	15 to 30C (59 to 86F)
ΔT/ΔT	<1.0C/15 min
Humidity	5 to 95% relative, non-condensing
Vibration Isolation	Isolation System recommended for PSI