

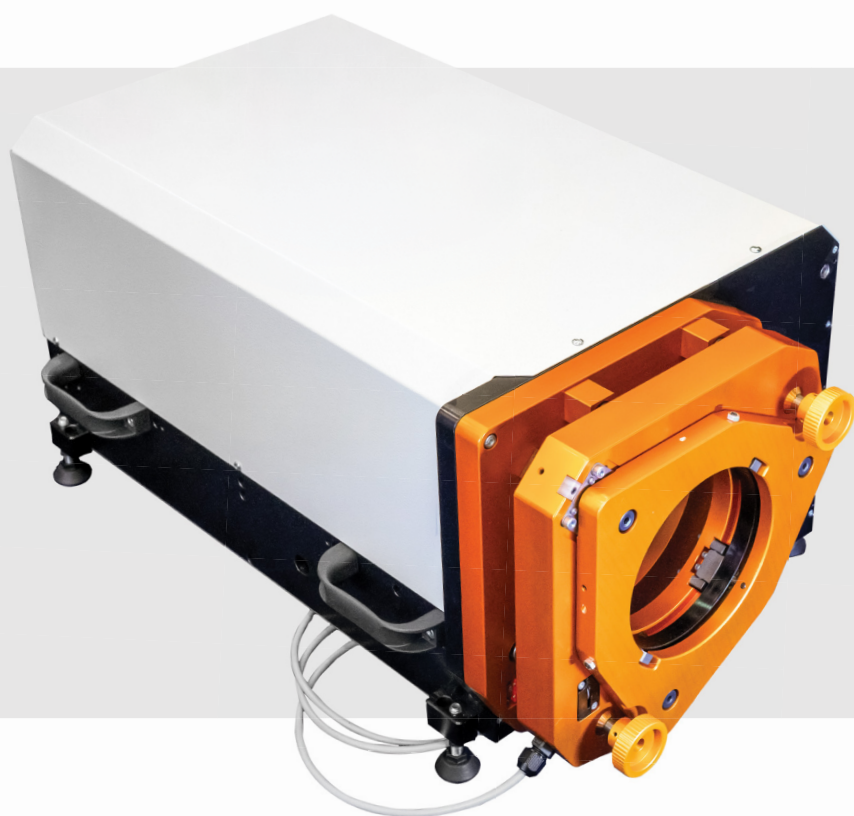
OPMI – T

A high-resolution common-path Fizeau interferometer

A high-resolution common-path Fizeau interferometer operating at **633 nm**, equipped with a **zoom module** and supporting both the classical **phase-shifting technique** using a stabilized laser source with a PZT actuator or the **wavelength-shifting method** based on a tunable laser source.

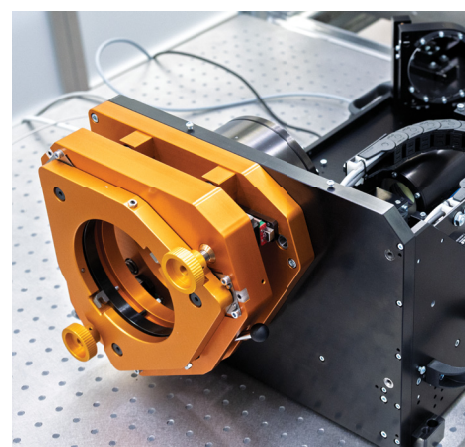
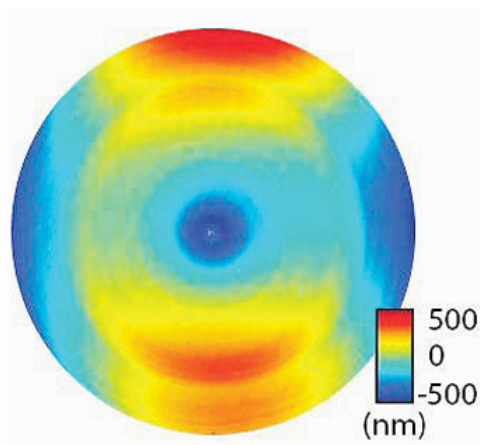
The interferometric unit is designed for the measurement of **planar** and **spherical optical surfaces**. As well as for samples that are prone to multiple reflections, such as **parallel optical flats** or **concentric surfaces** like **meniscus lenses** or **dome shaped optical elements**.

PRODUCT SPECIFICATION SHEET 1/2



KEY FEATURES

- high resolution imaging
- 4x True zoom
- flipmount quick-exchange holder
- wavelength-shifting for multi-surface interference
- dynamic measurement mode
- elaborated software suite



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PRODUCT SPECIFICATION SHEET 2/2

TECHNICAL SPECIFICATIONS

aperture	4"	central wavelength	633 nm
digital zoom	1x, 2x, 3x, 4x	interferometer type	fizeau
phase shifting	wavelength tuning/piezo actuators	spatial resolution	up to 50 ln/mm
frame rate	15 fps up to 120 fps	sensor resolution	> 20 Mpx
data spatial noise	< 5 nm rms	repeatability	< 5 nm rms
reproducibility	< 8 nm rms	ghost elimination	yes
minimal signal	interference pattern modulation > 1 %	laser source lifetime	> 5000 Hours
laser source	3R highly stabilized tunable laser diode		

TYPE OF SURFACES

plano	up to 100 mm in diameter	spherical	convex and concave
diverger	yes	parallel	flat, meniscus, dome

CONTROLLING

os	dedicated PC	monitor and keyboard	included / position adjustable
external control	remote desktop, trigger, external control of software	backup	available

INSTRUMENT LAYOUT

layout	single unit	external size w x d x h	598 x 299 x 380 mm
temperature stabilization recommended	21 °C +/- 3 °C	weight	26 kg
safety class	1st class laser, no moving parts	integration possible	vertical / horizontal

OPERATIONAL REQUIREMENTS

power supply	110 – 240 V AC	input power	< 150 W
external UPS	Not required / optional	pressurized air	Not required
ethernet connection	Yes, for optional external control and remote diagnostics	clean room requirement	Not required

SUPPORT

servis (EU)	In 72 Hours	online diagnostics	Yes
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CAUTION / WARNING
LASER RADIATION - AVOID DIRECT EYE
EXPOSURE
CLASS 3R LASER PRODUCT

OPMET Labs s.r.o. specializes in designing and producing optical measurement systems. With extensive experience in precision optics, the team deeply understands the needs of optical production, including ergonomic considerations and user interface parameters.

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