

X-fiz

PHASE SHIFTING FIZEAU INTERFEROMETER



- _ innovative, high quality Fizeau interferometer with high resolution 1.3 MP camera
- _ remote controlled and positioned, motorized zoom with 10X optical magnification
- _ remote controlled and positioned, motorized focus adjustment
- _ smart electronic attenuator with automatic saturation adjustment
- _ highly rigid frame and robust opto-mechanical design ensure alignment is maintained when mounting and that alignment will be maintained over time
- _ high quality piezo phase shifter with tip-tilt TS holder, compatible with Zygo style bayonet and XONOX 4+ connector
- _ industry standard 632.8nm HeNe laser
- _ 100mm (4"), 132mm (5.2") and 150mm (6") versions available, 5.2" version compatible with XONOX 4+ series TS objectives without need of optical connector
- _ Smart Remote – innovative remote allows for quick selection of zoom and focus.
- _ Smart Maintenance Concept – innovative design concept allows for change of laser and electrical components within minutes; all without opening the sensitive optical area of the system. A laser change does not require a realignment and the process can be done with the interferometer still installed within the measurement platform
- _ 1-interface Concept – industry standard USB 3.0 protocol used for all communications between computer and interferometer on a single cable
- _ USB 3.0 Interface for access to all functions via software

LASER SOURCE	632.8 nm HeNe Laser / polarized / class IIIA - 3R / 2mW output
VERSIONS 4" (100mm) APERTURE	<ul style="list-style-type: none"> _ X-fiz 100 Eco - 4" (100mm) Fizeau Interferometer _ X-fiz 100 ST - 4" (100mm) Fizeau Interferometer with X-fringe ST static fringe analysing system _ X-fiz 100 PS2 - 4" Phase Shifting Fizeau Interferometer X-fringe2 PS phase shifting fringe analysing system TS connection for all X-fiz100 Versions: 4" Zygo type bayonet
VERSIONS 5.2" (132mm) APERTURE	<ul style="list-style-type: none"> _ X-fiz 130 Eco - 5.2" (100mm) Fizeau Interferometer _ X-fiz 130 ST - 5.2" (100mm) Fizeau Interferometer with X-fringe ST static fringe analysing system _ X-fiz 130 PS2 - 5.2" Phase Shifting Fizeau Interferometer X-fringe2 PS phase shifting fringe analysing system TS connection for all X-fiz130 Versions: 5.2" XONOX 4+ Interface with adapter to 4" Zygo type bayonet
VERSIONS 6" (150mm) APERTURE	<ul style="list-style-type: none"> _ X-fiz 150 Eco - 6" (100mm) Fizeau Interferometer _ X-fiz 150 ST - 6" (100mm) Fizeau Interferometer with X-fringe ST static fringe analysing system _ X-fiz 150 PS2 - 6" Phase Shifting Fizeau Interferometer X-fringe2 PS phase shifting fringe analysing system TS connection for all X-fiz150 Versions: 6" Zygo type bayonet
CAMERA	1.3 Mpx, 8bit monochrome CMOS sensor, 210 FPS, shutter min 50µs
IMAGING SYSTEM	10x motorized zoom with positioning, motorized focus with positioning
CONTROL PANEL	Wired remote controller with rotating positioning controllers for zoom and focus (saturation auto adjusted)
CONNECTIONS	110-240 V / 50-60 Hz
COMPUTER/SOFTWARE	High performance Dell PC, 24" touch screen, 19" live image screen, WIN10 64 bit, X-fringe2 PS / X-fringe ST
DIMENSIONS (WxHxD) / WEIGHT	310 x 285 x 530 (595 incl. phase shifter) / approx. 35kg
COLOR	Perl-light-grey RAL 9022

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METROLOGY FOR OPTICS REDEFINED