Simetra™ FTP
Administrator's Manual
OMP-0451

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MANUAL REVISION INFORMATION

The document (OMP) number and the applicable revision letter for this manual appear on the title page. The publication date appears below.

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MANUAL NOTATIONS

▲ **Warning**
Denotes a hazard that could cause injury to personnel, and can also cause damage to the equipment.

Note: Provides helpful information.

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ZYGO Statement of Warranty and Product Support

Zygo Corporation provides this warranty to protect its customers from defects in product workmanship or product materials. This warranty covers all products manufactured by Zygo Corporation. Zygo warrants that the equipment purchased will be free from any defects in material and/or workmanship under normal operating conditions for a period of one year from the date of shipment.

In addition, being committed to providing our customers with superior service, Zygo will support all standard products for a period of five years after the sale of the last newly-manufactured unit. Beyond this five-year period, we will continue to support these products on a "best-effort" basis.

WARRANTY SERVICE

Zygo's responsibility under this warranty shall be limited to the repair or replacement (at Zygo's option) of defective equipment at no cost to the buyer, except for transportation, cleaning, and recalibration charges.

Zygo will perform warranty service by: (1) sending replacement parts with appropriate installation instructions to the buyer, the buyer returning his defective part to Zygo or; (2) repairing the product at a Zygo repair facility after it has been returned freight prepaid, or; (3) at the buyer's request, dispatching a service representative to the buyer's facility. The buyer shall pay Zygo's travel and living expenses as well as travel time.

Defective products or parts will be repaired or replaced with new or like-new parts. These replacement parts will be warranted for a period of 90 days after they are shipped, or for the remainder of the original warranty period, whichever is longer. Warranty service will be performed only if the buyer notifies Zygo within 14 days of discovering any defects. Equipment or parts that are to be returned to Zygo must be issued a Return Authorization number. This number can be obtained by contacting the Zygo Service Department. Should Zygo's subsequent inspection reveal that the parts were not defective, all expenses incurred by Zygo shall be charged back to the buyer. Defective equipment that is replaced shall become the property of Zygo.

Warranty period begins when the product is shipped from Zygo. Replacement parts, service workmanship, used equipment, and refurbished equipment are warranted for a period of 90 days.

RETURNS

Unused and undamaged products, in their original shipping containers, may be returned for credit within 30 days of receipt. All such products will be subject to a restocking fee equal to 20 percent of the purchase price. Custom products are not returnable.

EXCLUSIONS

The above warranty and product support statement applies only to equipment that is an integral part of a Zygo manufactured product. It does not apply to peripheral equipment manufactured by others, such as: computers, printers, vibration isolation tables, etc. In such cases, the warranty and the support that the original manufacturer supplies will apply.

In addition, warranty service does not include or apply to any product or part which, in Zygo's judgment:

a. Has been repaired by others, improperly installed, altered, modified, or damaged in any way.
b. Malfunctions because the customer has failed to perform maintenance, calibration checks or good operating procedures.
c. Is expendable or consumable (such as panel lights, fuses, batteries, windows, and filters) if such items were operable at the time of initial use.
d. Requires replacement because of decomposition due to chemical action.
e. Fails because of poor facility, operating conditions, or utilities.

Other than expressly described above, Zygo makes no express or implied warranties, including any regarding merchantability or fitness for a particular purpose relating to the use or performance of the equipment. Zygo will not be liable for personal injury or property damage (unless caused solely by its own negligence), loss of profit or other incidental or consequential damages arising out of the use or inability to use the equipment. Nor does this warranty apply to any equipment which has been subject to misuse, neglect or accident; or repaired or altered by other than service representatives qualified by Zygo.

01/96

CE Notice

Marking by the CE symbol indicates compliance of this Zygo instrument to the EMC (electromagnetic compatibility) Directive and the Low Voltage Directive of the European Union. Such marking is indicative that this system meets the following technical standards:

- EN 55011 – “Limits and methods of measurements of radio disturbance characteristics of ISM (Industrial Scientific & Medical) radio frequency equipment.” Class A, for use in typical commercial environments.
- EN 55022 – “Limits and methods of measurements of radio disturbance characteristics of ITE (Information Technology Equipment).” Class A, for use in typical commercial environments.
- EN 50082-1 1992 – “Electromagnetic compatibility generic immunity standard for the residential, commercial and light industrial environments.”
- EN 61010-1 1993/A2: 1995 – “Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements.”

A Declaration of Conformity in accordance with the preceding directives and standards has been made and is on file at Zygo Corporation, Middlefield, Connecticut, USA.

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Using the Touchscreen

The Touchscreen is used for viewing as well as for general MetroPro software and instrument control. For most interaction, your finger is the pointing device replacing the mouse. When MetroPro requires text entry, a software Screen Keyboard is automatically opened.

This section supplements the basic user information found in the *Getting Started With MetroPro* manual.

Mouse Action	Touchscreen Interaction
Click	Touch the screen and remove your finger.
Double-Click	Touch the screen two times rapidly.
Drag	Touch the screen and move your finger across the screen.

The Screen Keyboard

The software Screen Keyboard is automatically opened when required for MetroPro input. For example, the keyboard appears when touching a MetroPro control that requires text input. The Screen Keyboard works similar to a normal keyboard, except the Alt and Ctrl keys are nonfunctional.

To open the ScreenKrd, click its Taskbar icon

The Screen Keyboard

ESC	1	2	3	4	5	6	7	8	9	0	-	=	BS	HOME
TAB	q	w	e	r	t	y	u	i	o	p	[	]	\	PgUp
CAPS	a	s	d	f	g	h	j	k	l	;	'	ENTER		PgDn
SHIFT	z	x	c	v	b	n	m	,	.	/			↑	End
CTRL	ALT					zygo		SPACE		INS	DEL	←	↓	→

Working With the Screen Keyboard

ScreenKbrd Function	Procedure
Open	The keyboard opens when an applicable control or button is touched. Or click the ScreenKbrd icon in the Taskbar.
Close	Any terminating action closes the Screen Keyboard, such as Enter, Esc, or touching the screen away from the edit area. Or double-click the Zygo logo.
Enter text	Touch the keyboard keys. To end, touch the Enter key. To cancel press Esc.
Move the Screen Keyboard	Touch the Zygo logo, drag your finger, and then remove your finger.

Touchscreen - Working with Controls

Function	Procedure
Choose a Setting	Touch the control repeatedly until your choice is displayed.
Enter Text	1. Double touch the control, the software keyboard opens. 2. Touch the Screen Keyboard keys to enter characters. 3. Touch the Enter key to complete the entry.
Cancel Entry	Touch the Esc key.

Touchscreen - Working with Windows

Window Function	Procedure
Open	Touch the closed window representation (icon).
Close	Touch the Close box on the window's title bar.
Close Application	Touch the large Close button.
Move	Touch the window's title bar, drag your finger to move the outline, and then remove your finger.
Resize	Touch the Resize box on the window's title bar; when the outline appears, drag your finger to define the outside borders, and then remove your finger.

The Live Display

The Live Display is a live, on-screen, visual display of what the instrument sees. The Live Display is a software video monitor, showing the fringe interference patterns of the part being measured.

Viewing the Live Display

When MetroPro software is loaded, the Live Display opens in a minimized state on the Windows taskbar. Click the taskbar icon to open the Live Display window.

To open the Live Display, click its Taskbar icon

Working with the Live Display

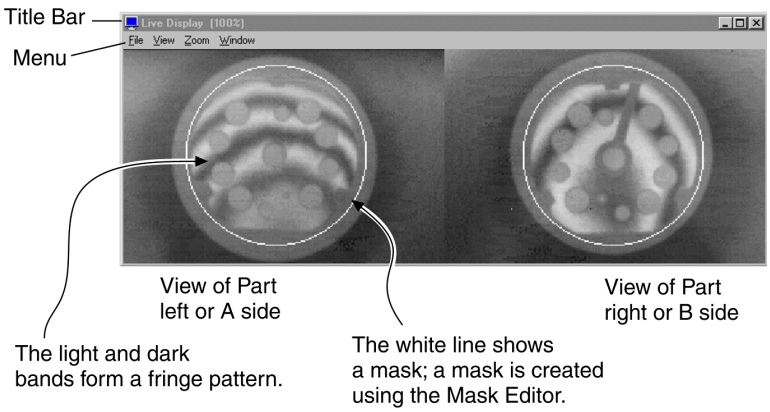
To minimize or close the Live Display, double-click the window.

To move or relocate the Live Display, click and drag the window.

To enlarge or fill the screen width, double-click the title bar. Other sizes are selected with the Zoom menu

To print the display, on the File menu click Print.

The Live Display Window

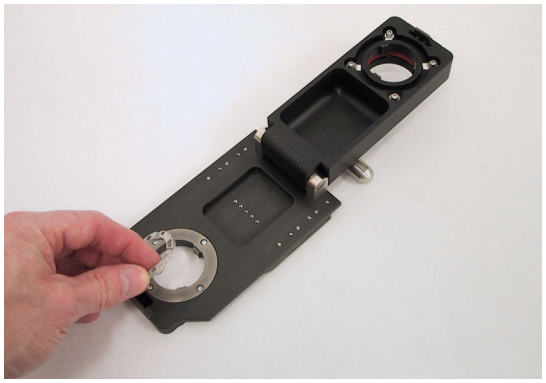


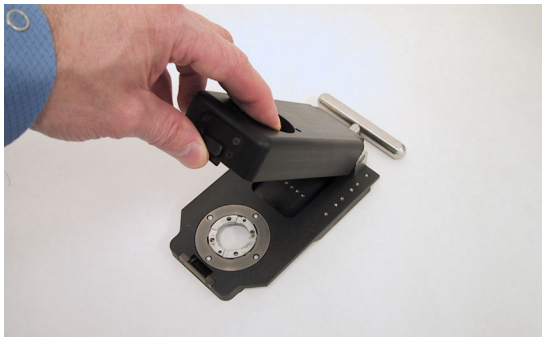
Zero Gage

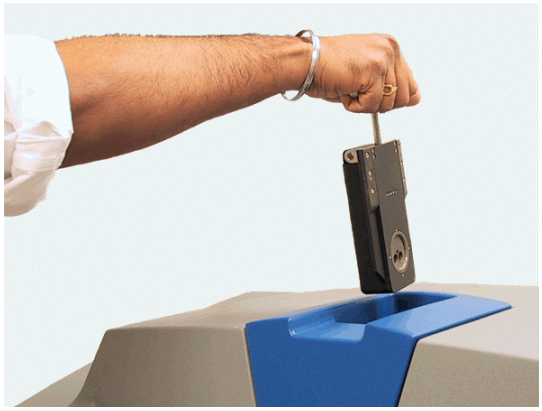
Zero Gage is an instrument system initialization routine to establish the metrology plane on the right window; and to create an instrument system error file, so the inherent optical errors are subtracted from the measurement results. Test parts are placed into the metrology plane for measurement.

When required, due to temperature changes inside the instrument, or due to the passing of time, the software prompts you to perform a zero gage. It is recommended to perform zero gage every time you are prompted to do so. Zero gage ensures that the instrument is operating up to its specified performance.

Using a Cartridge







The part cartridge is designed for use in a production environment. Cartridges are factory-customized with an insert to receive a particular part. Each part type you want to measure should have a customized cartridge.

There is not a general-purpose cartridge. The v-block is used as an all-purpose fixture. Contact Zygo for information on custom insert designs.

1. Push the button on the bottom of the cartridge cover and open the cartridge.
2. If there is a part in place, remove it.
3. Place the part into the cartridge insert.
4. Close the cartridge cover. Ensure the cartridge cover latches.
5. Lift the cartridge by the handle and slide it into the cartridge receptor.

▲ **Warning!**
Note the position of the cartridge as it is inserted into the cartridge receptor. The cartridge base is toward the right and the cartridge is slightly angled. Do not drop the cartridge into the receptor.