

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Ametek / Zygo GPI-XPS* at our website: ***Click HERE***

GPI XP Specifications

MAINFRAME PERFORMANCE

Accuracy [1]	λ/100 PV
Instrument Precision [2]	λ/1000 rms (2σ)
Repeatability of PV [3]	λ/300 (2σ)
Repeatability of rms [3]	λ/2000 (2σ)
Spatial Sampling	320 x 240 pixels (17 mm clear aperture at 6X zoom)
Spatial Sampling-High Resolution	640 x 480 pixels (17 mm clear aperture at 6X zoom)
Resolution	λ/6000 (Low resolution, double pass) λ/12000 (High resolution, double pass, 5 data frames)
Data Acquisition Time	Low Resolution - 100 ms (5 frames of data) High Resolution - 200 ms (10 frames of data)
Digitization	8 bits
Averaging Modes	Intensity and Phase
Intensity Averaging Acquisition Rates	Low resolution - 0.667 sec./measurement High resolution - 1.333 sec./measurement

LASER

Type	Helium-Neon
Wavelength	632.8 nm
Maximum Output Power	≤2 milliwatt
Output Power at Aperture	≤1 milliwatt
Test Beam Diameter	4 in. (102 mm) standard or 6 in. (152 mm) optional
Beam Polarization	Circular
Coherence Length	>100 meters

CONTROLS

Mainframe	Power On/Off, Beam Attenuator, Tip/Tilt
Remote	Quick-FAS, Alignment, Zoom, Focus, Measure, & Print

1 The overall system accuracy for absolute testing (e.g. 3-Flat test). System accuracy for relative testing is dependent on the quality of the reference optic.

2 Precision is the residual rms error of the difference of two consecutive measurements, each with 16 phase averages. This specification is derived from 100 measurements and represents the mean value plus 2σ.

3 Repeatability of the quoted statistic is for 100 measurements of the same part; with 16 phase averages per data set. The specification represents the mean value plus 2σ.

OPTICAL

XP Zoom Range	6:1
XP Aperture Focus	-800 mm +1200 mm
Optical Centerline	4.25 in. (108 mm)
Alignment System	Quick FAS, (twin spot with reticle) 4-inch GPI Alignment Field of View: ±3 degrees 6-inch GPI Alignment Field of View: ±2 degrees Pupil Focus Range: ± ~1 meter, 4 in. aperture

COMPUTER AND SOFTWARE

Computer	Dell PC; configured with hard drive, CD-ROM, floppy drive, and 19-inch color monitor; printers are optional
Software	Zygo MetroPro software running under Microsoft Windows NT

VIDEO OUTPUT

Viewing	9-inch black and white monitor standard

ELECTRICAL

90-240 VAC, 50/60 Hz
75 watts, single phase

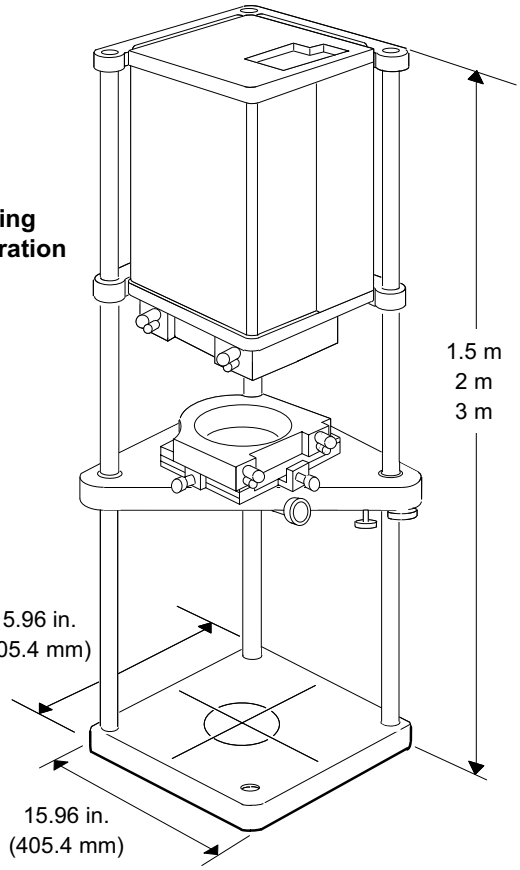
OPERATING ENVIRONMENT

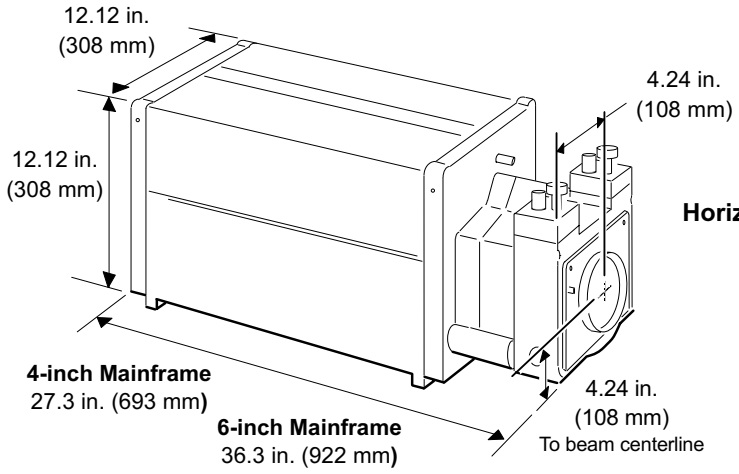
Temperature	15° to 30° C (59° to 86° F)
Rate of Temperature Change	<1.0° C/15 minutes
Humidity	5 to 95% relative, noncondensing
Vibration	Frequency Isolation - 1 Hz <freq. <120 Hz

WEIGHT & DIMENSIONS

Dimensions	Refer to illustration.
Weight	80 lb (36 kg) 4-inch mainframe with PMR 100 lb (45 kg) 6-inch mainframe with PMR

Downward looking vertical configuration





Horizontal configuration

4-inch Mainframe
27.3 in. (693 mm**)**

6-inch Mainframe
36.3 in. (922 mm**)**

OPTIONS

5-Axis Stage	X, Y, Z and tip and tilt movement. For use with upward or downward looking configurations.
Support Rods, Brackets, Baseplate	Three support rods, two "L" brackets, and a baseplate are for use with the upward or downward looking configurations. Support rods available in 1.5, 2, or 3 meter lengths.
Transmission and Reference Flats	33 mm, 4-inch, and 6-inch clear apertures; with either 4% or 90% reflectivity
Transmission Spheres	33 mm, 4-inch, 6-inch diameters; with f/numbers from 0.74 to 11
Reference Spheres	Concave reference spheres; with either 0.51 or 0.68 R/numbers
Part Holding Mounts	2 and 3 axis
Beam Expanders	6-inch, 12-inch, 18-inch, 24-inch, and 32-inch (4-inch to 25 mm reducer also available)
Software	Application-specific modules including: Two Sphere, 3-Flat, Phom Polished Homogeneity, Disk Flatness, Corner Cube, Zernike, Angle Measurement, and Static Fringe

Specifications subject to change without prior notice.

Zygo Corporation
Laurel Brook Road
P.O. Box 448
Middlefield, CT 06455-0448
U.S.A.

Phone: (860) 347-8506
Fax: (860) 346-4188
E-Mail: inquire@zygo.com
Web Site: www.zygo.com

SS-0002 11/99
Copyright © 1999 Zygo Corporation
Zygo and the Zygo logo are registered trademarks of Zygo Corporation.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP