

The 24P is designed to be an all purpose measurement/inspection instrument capable of performing both light and heavy duty tasks. Choose any lens system to customize this machine to match your requirements.

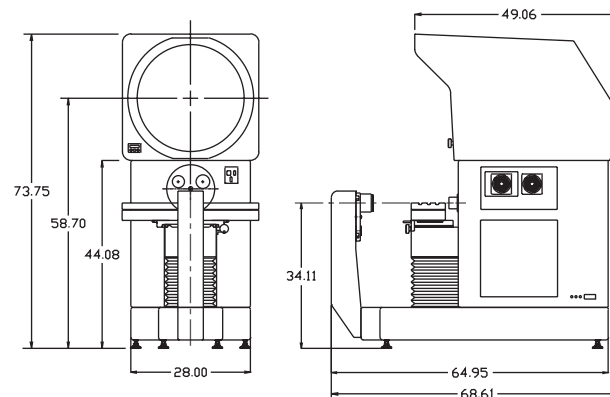
## FEATURES:

- 24" (600mm) Vertical screen for optimum viewing
- Erect and reversed profile image
- Precision ground glass screen with calibration reticle, 90 degree cross lines
- Machined chart ring with vernier protractor, 1 minute graduation, and chart clips
- Coated telecentric parfocal optics
- 3 position rotary lens & condenser turret
- LED surface & dimmable profile illumination
- Bright fiber optic surface illumination
- Machine precision solid cast iron, nickel plated stage
  - Triple universal dovetails accommodate wide range of fixtures
  - 36" x 8" (914x200mm) overall size
  - Crossed roller bearings for superior performance
  - 500 lbs capacity
  - 24" (610mm) X-axis motorized travel
  - 10" (250mm) Y-axis motorized travel
  - 3" Motorized focus travel
  - Linear scale resolution 0.1  $\mu\text{m}$  / .000004"
  - $\pm 15$  degree true parfocal helix stage adjustment, with 5 minute vernier
  - Joystick control, computerized microstep motor controller with X and Y axes & focus
- Integrated hood
- NIST traceable calibration certificate
- 2 Year limited warranty

## OPTIONAL FEATURES:

- Internal edge detection
- Output for electronic rotary screen protractor (Q-axis) on readout with selectable between DMS (degree-minute-second) and DD (decimal-degrees) of a degree resolution
- Q axis accuracy of  $\pm 0.5$  degrees
- Choice of readout options, see page 90
- CNC computer controlled readout systems
- 4 lens turret available
- Harsh Environment Package
- Wide selection of lenses
- Extended hood & curtains
- Tooling

## DIMENSIONS



Technical Specification	
Illumination	Profile: Dimmable LED Surface: LED
Screen Size	24" (600mm) Ground glass with cross-lines
Stage	Cast iron, nickel plated, 36" x 8", triple dovetails
Stage Travel	X = 24" (610mm), Motorized Y = 10" (250mm), Motorized Focus = 3" (75mm), Motorized
Stage Accuracy	Within $\pm 0.004\text{mm}$ +[(L/20).001]
Linear Scale Resolution	Standard: 0.1 $\mu\text{m}$ / .000004"
Repeatability of Scales	$\pm 1$ Scale count (0.1 $\mu\text{m}$ / .000004")
Coated Telecentric Lenses	10x, 20x, 50x
Optical Accuracy	Within $\pm .10\%$ Profile, $\pm .15\%$ Surface
Power Requirements	120V or 240V AC, 50/60 Hz, 10 Amp
Weight	1980 lbs/898 kg