

PROFILE PROJECTOR



EP-1 optical profile projector is designed for all kind of measurement in mould & die making, from tools making, screw manufacturing, gear manufacturing, electric, electronic and pneumatic components etc...

EP-1 High Precision optical Profile Projector Provides accurate 2D measurement for all common geometric features such as circle, line, angle, distance, intersection points etc... all measured results can be printed directly or transferred to computer for further processing.

Manufactured with top class components, under high standard of workmanship, EP-1 achieves very high measurement accuracy, the accuracy is $(3+L/100)\mu\text{m}$, where L is the measured length in mm. The total contour distortion is less than 0.08%.

EP-1 equipped with the ES-12P LCD measuring system to assure high accuracy measurements and provide easy operations.



【High stability machine casting】

To avoid deformation caused by internal stress of metal casting, in addition to normal internal stress release process by tempering, all EP-1's castings are further stress released by computer controlled vibration stress release. This process assure high stability and long lasting measuring accuracy.



【High precision linear guideway】

The high precision linear guideways are used in all X Y Z Axes movement to provide high straightness movement and consequently high measurement accuracy.



【Robust friction transmission system】

To avoid the used back-lash problem in normal lead screw transmission system, rod base friction transmission systems are used in EP-1'S XY movements. This solution provides excellent smooth, sensitive and back-lash free positioning that assure easy & precise measurements.



POWERFUL

FRIENDLY

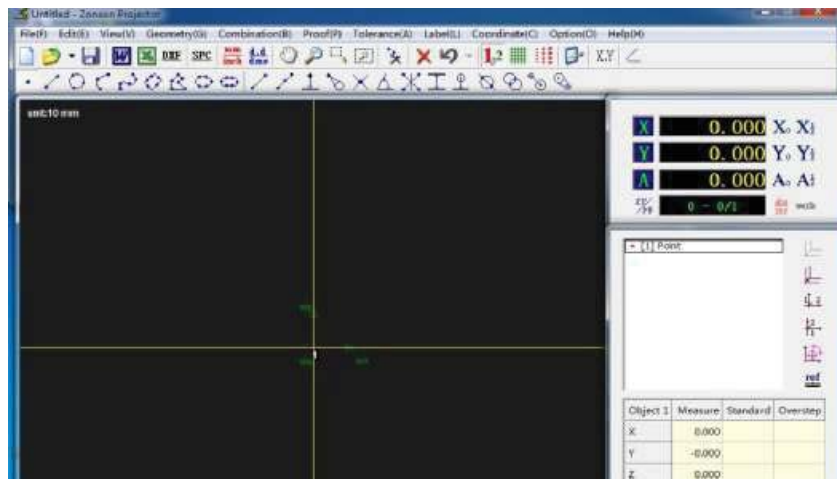
Measuring system: ES12



10x, 20x, 50x lens



Micro-printer



EP-1 can update ES12 DRO to software for much more 2D functions

- *Basic measurement functions: point, line, angle, circle, ellipse, distance, angle, intersection,
- *Pattern measurement function: Midpoint, circle tangent lines, line circle intersection, circles intersection, midline
- * language can be setting to English, Italy, German, French, Portuguese, Spanish, Chinese, Czech
- * words and background color of screen can be setting

ES-12 has a 7 inch big multicolored LCD display screen which provides active graphic display, and **step by step operation graphical guidance for all DRO functions**, which makes ES-12 extremely user friendly. The design philosophy of ES-12 is to be the most easy to use DRO in the world which allows all operators can implement all the powerful DRO function within few minutes immediately after he switch on the ES-12.

Model	EP-1 1510	EP-1 2010	EP-1 2515
Table dimensions	300×170mm	350×170mm	420×250mm
Glass dimensions	175×127mm	230×120mm	290×190mm
X measurement travel	150mm	200mm	250mm
Y measurement travel	100mm	100mm	150mm
Z focusing travel	90mm		
XY readout resolution	0.001mm		
Axial measuring accuracy	(3+L/100)um		
Screen diameter	315mm		415mm
A readout range	0-360°		
A readout resolution	0.01°		
Max. Contour distortion	0.08%		
Magnifications Lens	10×, 20×, 50×		