

Quick Vision ELF

Series 363

CNC Vision Measuring System

- With a controller-integrated compact size design, this lightweight, space saving series is ideal for installations in any location where space is limited.
- With a small footprint and full functionality, this series offers various options but all illumination equipped with PRL and power turret.
- Pattern focus enables measurement in the Z-axis with Auto Focus tools (refer to QV Accel). On low contrast, transparent or mirrored surfaces.



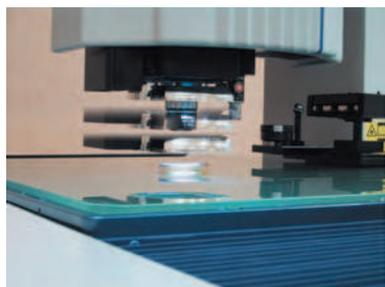
QV ELF 202 (QV-E202 P1L)



Touch Probe option

Type	QV-E202P1L-C	QV-E202L1L-C	QVT1-E202P1L-C	QVT1-E202L1L-C
No.	363-105-1EU	363-106-1EU	364-105-1EU	364-106-1EU
No. UK only	363-105-1E	363-106-1E	364-105-1E	364-106-1E
Laser Auto Focus (TTL) ⁽²⁾	-	●	-	●
Repeatability (σ)	-	0,4 μm	-	0,4 μm
Touch Probe Option ⁽²⁾ (TP)	-	-	●	●

⁽²⁾ Factory Option



PRL = Programmable Ring Light

Fine control of angle and direction provides illumination for optimal measurement. Angle can be set in the range from 30° to 80°. This type of illumination is effective for enhancing the edge of inclined surfaces or very small steps. Illumination can be controlled independently from the back and front, right and left. Measurement with edge enhancement is possible by forming a shadow by lighting from only one direction.

Specifications

Range (X-, Y-, Z-axis)	250 x 200 x 200 mm
Resolution	0,1 μm
Accuracy ⁽¹⁾	$E_{1(x,y)} = (2+0,3L/100) \mu\text{m}$ $E_{1(z)} = (3+0,5L/100) \mu\text{m}$ L = measured length (mm)
Illumination (White LED)	- Contour - Coaxial - 4-quadrant PRL (PRL : see Programmable Ring Light on this page)
Optical system	Programmable Power Turret (PPT) 1X ; 2X ; 6X
Stage glass size	311 x 269 mm
Max. stage loading	15 kg
Mass	205 kg

⁽¹⁾ According to Mitutoyo inspection method

Additional Specifications

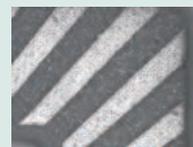
Factory option - **Series 364**
Touch Probe option (TP)
- **Laser Auto Focus (LAF)**
Refer to Quick Vision Accessories

Additional objective lenses Refer to the Optical Accessories page for Quick Scope / Quick Vision lenses

Optional accessories

No.	Description
02ATP623.	Machine stand for QV-ELF
02AKN020.	Calibration chart only
02ATN695.	Calibration chart with holder

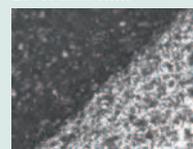
Refer to the Optical Accessories page for Quick Scope / Quick Vision for more information on calibration charts.



1X tube lens and
2.5X objective
Field of View :
2.5 x 1.88 mm



2X tube lens and
2.5X objective
Field of View :
1.25 x 0.94 mm



6X tube lens and 2.5X objective
Field of view: 0.41 x 0.31 mm
Programmable power turret (PPT) - 1X ; 2X ; 6X
The three tube lens selection provides three magnification levels while using the same objective lens. Replacement lenses allow a wide range of magnifications to support a variety of measurements.



Quick Vision brochure on request