

Optional Accessories

For Quick Vision Measuring Systems

Objectives

Objective	Code No.	Working distance
QV-SL0.5X	02AKT199	30.5 mm
QV-HR1X	02AKT250	40.6 mm
QV-SL1X	02ALA150	52.5 mm
QV-HR2.5X	02AKT300	40.6 mm
QV-SL2.5X	02ALA170	60 mm
QV-5X	02ALA420	33.5 mm
QV-HR10X	02AKT650	20 mm
QV-10X	02ALG010	30.5 mm
QV-25X	02ALG020	13 mm

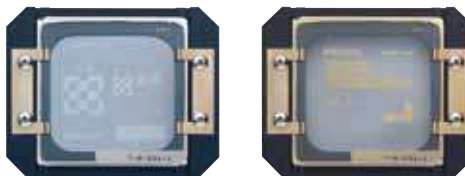
The monitor magnification and field of view values apply to PRO models only.

QV-10X, QV-25X: Depending on the workpiece, the illumination may be insufficient at a turret lens magnification of 2X and 6X.
QV-25X: The PRL illumination is restricted in its usable positioning.

Objective	Turret lens mag.	Monitor mag.	Field of View
QV-SL0.5X	1X	15X	12.54 x 9.4
	2X	30X	6.27 x 4.7
	6X	90X	2.09 x 1.56
QV-HR1X QV-SL1X	1X	30X	6.27 x 4.7
	2X	60X	3.13 x 2.35
	6X	180X	1.04 x 0.78
QV-HR2.5X QV-SL2.5X	1X	75X	2.5 x 1.88
	2X	150X	1.25 x 0.94
	6X	450X	0.41 x 0.31
QV-5X	1X	150X	1.25 x 0.94
	2X	300X	0.62 x 0.47
	6X	900X	0.20 x 0.15
QV-HR10X QV-10X	1X	300X	0.62 x 0.47
	2X	600X	0.31 x 0.23
	6X	1800X	0.10 x 0.07
QV-25X	1X	750X	0.25 x 0.18
	2X	1500X	0.12 x 0.09
	6X	4500X	0.04 x 0.03

Calibration & Compensation Charts

These glass charts are used to compensate for differences in the pixel size of the CCD chip, autofocus accuracy and the optical axis offset at each magnification of the Programmable Power Turret (PPT).



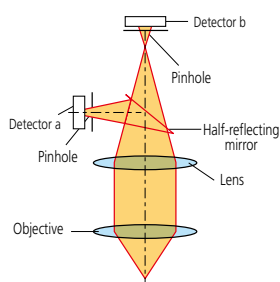
Laser Auto Focus Function*

The system can be equipped with the Laser Auto Focus unit that allows stable, high-speed height measurement. The double pinhole method used in the detection system minimises dependence on surface inclination.

*Available for specific models.



Coaxial laser auto-focus



Example: Height of leads from a QFP package

Laser Beam Safety Precautions

This system uses a low-power visible laser beam which corresponds to a CLASS 1 (visible radiation) of IEC 60825 for measurement. The CLASS 1 laser warning label as shown below is attached to the main unit.



QV Indexing Head

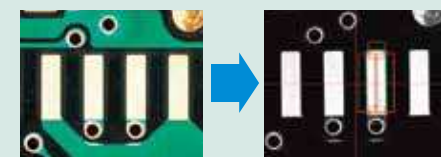
Automatic multi-plane measurement is possible with the optional indexing head.



Max. workpiece diameter	140 mm
Max. workpiece mass	2 kg
Min. rotation angle	0.1°
Positioning accuracy	±0.5°
Max. rotation speed	10 rpm

RGB Colour Filtering Unit

The colour filtering function can be added to the vertical reflected illumination or programmable ring light in Quick Vision models that use a halogen light source. This function enhances the visibility of low-reflection surfaces on coloured workpieces, facilitating reliable edge detection. This function can also be retrofitted to a conventional Quick Vision model. In addition, a yellow filter enables vision measurement in the yellow light region, which provides high sensitivity.



Red filter used

