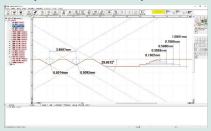




Example of 3D form comparison



OVH4 Pro

CNC Vision Measuring System equipped with Non-contact displacement sensor

- This dual system with a non-contact displacement sensor has a scanning function that enables measurement of minute height differences and 3D shapes.
- The non-contact displacement sensor (CPS probe) uses the wavelength confocal method.



• The LED used as the light source of the displacement sensor has an auto-brightness control function that enables seamless measurement of materials with different reflectivity.



Features: QVH4 Pro

- The automatic lighting adjustment function allows for high accuracy measurements.
- Surface roughness or thickness measurement of thin and transparent objects such as film.

COMMON SPECIFICATIONS

Items	Model No.	QVH4 APEX 302 Pro	QVH4 APEX 404 Pro	QVH4 APEX 606 Pro	QVH4 HYPER 302 Pro	QVH4 HYPER 404 Pro	QVH4 HYPER 606 Pro
Measuring range (X×Y×Z)	Vision	300×200×200 mm	400×400×250 mm	600×650×250 mm	300×200×200 mm	400×400×250 mm	600×650×250 mm
	Non-contact displacement sensor	176×200×200 mm	276×400×250 mm	476×650×250 mm	176×200×200 mm	276×400×250 mm	476×650×250 mm
Vision measuring accuracy*1	EUX/EUY, MPE	(1.5 + 3L/1000) µm			(0.8 + 2L/1000) μm		
	EUXY, MPE	(2.0 + 4L/1000) µm			(1.4 + 3L/1000) μm		
	Euz, mpe	(1.5 + 4L/1000) μm			(1.5 + 2L/1000) μm		
Displacement sensor measuring E12 accuracy*1*2		(1.5 + 4L/1000) μm			(1.5 + 2L/1000) μm		

*1 L=length between two arbitrary points (mm) *2 Inspected to a Mitutoyo standard.





Safety precautions regarding QV HYBRID TYPE1

This product uses a low-power invisible laser (780 nm) for measurement. The laser is a CLASS 1 EN/IEC 60825-1 device. A warning and explanation label, as shown above, is attached to the product as appropriate.

COMMON SPECIFICATIONS

QV HYBRID TYPE1

CNC Vision Measuring System equipped with Non-contact displacement sensor

- This dual system with a non-contact displacement sensor has a scanning function that enables measurement of minute height differences and 3D shapes.
- The double-pinhole technique is used as the detection method of the displacement sensor. It is less directional compared with the knifeedge and triangulation techniques.
- The small laser spot with diameter of about 2 µm makes it possible to measure minute shapes.

Features: OV HYBRID TYPE1

- The focusing point method minimizes the difference in the measuring face reflectance and achieves high measurement reproducibility.
- Capable of measuring detailed shapes in high resolution.

Model No. QVH1 Apex 302 | QVH1 Apex 404 | QVH1 Apex 606 | Hyper QVH1 302 | Hyper QVH1 404 | Hyper QVH1 606 Items 300×200×200 mm | 400×400×250 mm | 600×650×250 mm | 300×200×200 mm | 400×400×250 mm | 600×650×250 mm Measuring range Vision Non-contact displacement sensor | 180×200×200 mm | 280×400×250 mm | 480×650×250 mm | 180×200×200 mm | 280×400×250 mm | 480×650×250 mm | (XxYxZ)(1.5 + 3L/1000) µm $(0.8 + 2L/1000) \mu m$ E1x, E1Y $(1.5 + 4L/1000) \mu m$ $(1.5 + 2L/1000) \mu m$ Vision measuring accuracy* E₁₇ $(2.0 + 4L/1000) \mu m$ $(1.4 + 3L/1000) \mu m$ Displacement sensor measuring E1Z $(1.5 + 2L/1000) \mu m$ $(1.5 + 4L/1000) \mu m$ accuracy*

^{*} Inspected to a Mitutoyo standard. L=length between two arbitrary points (mm)

