

QV Apex Pro

SERIES 363 – CNC Vision Measuring System

- 3D CNC Vision Measuring System offering superb accuracy and high functionality.
- The fixed bridge, moving table design is used for the ultimate in rigidity.
- Programmable ring lighting provides the flexibility in lighting direction, angle and intensity, no matter the slope of the workpiece surface, that enables achievement of maximum surface contrast for best imaging resolution, and hence accuracy.
- A programmable power turret provides control of magnification for optimal viewing.



QV Apex606PRO

FEATURES

- White LED transmitted stage light on PRO model.
- LED coaxial light with variable light colour on PRO model.
- Programmable four-quadrant LED ring light with variable light colour (PRO model).
- Halogen transmitted stage light and Halogen coaxial light on PRO3 model.
- Programmable four-quadrant white Halogen ring light on PRO3 model.
- CNC operation.
- Triangular pattern focussing for low-contrast surfaces.
- Programmable magnification changer 1X, 2X and 6X.
- High-precision objective lens system 1X, 2.5X and 5X.
- High-resolution black and white CCD camera on PRO model, high-resolution colour CCD camera on PRO3 model.
- Resolution of the QUICK VISION APEX: 0.1 μm (0.0001 mm).
- One-click tool technology for optimum edge detection.
- User-friendly QVPAK software.



QV Apex302PRO

SPECIFICATIONS

Model		QV Apex 302		QV Apex 404		QV Apex 606	
		PRO	PRO3	PRO	PRO3	PRO	PRO3
Code No.		363-111	363-113	363-131	363-133	363-151	363-153
Measuring range	X	300 mm		400 mm		600 mm	
	Y	200 mm		400 mm		650 mm	
	Z	200 mm		250 mm		250 mm	
Resolution		0.1 μm					
High-resolution CCD camera		B&W	Colour	B&W	Colour	B&W	Colour
Accuracy* ¹	E _{1xy}	±(1.5+0.3L/100) μm					
	E _{1z}	±(1.5+0.4L/100) μm					
	E _{2xy}	±(2.0+0.4L/100) μm					
Illumination	Surface	LED, RGB	Halogen	LED, RGB	Halogen	LED, RGB	Halogen
	Contour	LED, white	Halogen	LED, white	Halogen	LED, white	Halogen
	Programmable ring light	LED, RGB	Halogen	LED, RGB	Halogen	LED, RGB	Halogen
Magnification changing system		Programmable power turret					
Max. drive speed	X/Y axes	300 mm/s		400 mm/s		400 mm/s	
	Z axis	300 mm/s		300 mm/s		300 mm/s	
Stage glass size		399 x 271 mm		493 x 551 mm		697 x 758 mm	
Max. workpiece height		200 mm		250 mm		250 mm	
Max. stage loading		20 kg		40 kg		50 kg	
Dimensions (W x D x H)		859 x 951 x 1609 mm		1027 x 1407 x 1778 mm		1309 x 1985 x 1794 mm	
Mass* ²		360 kg		579 kg		1450 kg	

*¹ Programmable power turret: 1X, objective set: 2.5X, L = measured distance between two arbitrary points (mm).

*² Including machine stand.