

Technical Specifications Quick Vision Apex

| Model | | Quick Vision APEX | | | | | |
|---|--|---|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|
| | | Quick Vision APEX 302 PRO | Quick Vision APEX 302 PRO3 | Quick Vision APEX 404 PRO | Quick Vision APEX 404 PRO3 | Quick Vision APEX 606 PRO | Quick Vision APEX 606 PRO3 |
| Measuring range [mm] | X x Y x Z | 300 x 200 x 200 | | 400 x 400 x 250 | | 600 x 650 x 250 | |
| Scales | Resolution [µm] | 0,1 | | | | | |
| | Type | Reflective linear encoders | | | | | |
| Driving method | | DC servo motor and ball screw | | | | | |
| Guide method | | Hard bearing | | | | | |
| Image processing unit | | 1/2" BW CCD camera | 1/3" color CCD camera | 1/2" B/W CCD camera | 1/3" color CCD camera | 1/2" B/W CCD camera | 1/3" color CCD camera |
| Illumination | Contour | White LED | Halogen cold light | White LED | Halogen cold light | White LED | Halogen cold light |
| | Surface | white/red/blue/green LED | Halogen cold light | white/red/blue/green LED | Halogen cold light | white/red/blue/green LED | Halogen cold light |
| | Programmable ring light | 4 quadrants white/red/blue/green LED | Halogen cold light | 4 quadrants white/red/blue/green LED | Halogen cold light | 4 quadrants white/red/blue/green LED | Halogen cold light |
| Optical system | | Programmable magnification changer (Power Turret) 1x, 2x, 6x | | | | | |
| Measuring accuracy [µm] | E1 | X, Y | (1,5 + 0,3 L/100) | | | | |
| | | Z | (1,5 + 0,4 L/100) | | | | |
| | E2 | XY plane | (2,0 + 0,4 L/100) | | | | |
| Max. driving speed [mm/s] | X, Y | 300 | | 400 | | | |
| | Z | 300 | | | | | |
| Stage glass size [mm] | W x D | 399 x 271 | | 493 x 551 | | 697 x 758 | |
| Max. workpiece mass [kg] | | 20 | | 40 | | 50 | |
| Dimensions incl. stand | W x D x H | 859 x 951 x 1609 | | 1027 x 1407 x 1778 | | 1309 x 1985 x 1794 | |
| Mass [kg] | Main unit on stand | 360 | | 579 | | 1450 | |
| Conditions for temperature range in which the accuracy is warranted | Temperature range [°C] | 20 ± 1 | | | | | |
| | Optical conditions for Vision measuring sensor | [2,5x Objective (QV-HR2,5x oder QV-SL 2,5x) and 1x-Tubus lens (Power Turret)] | | | | | |

Mitutoyo: Specifications QV Apex