

Technical Specifications

Specification	CAG-10	CAG-20 SE	CAG-20 PE
Measuring Range Inaccuracy	0°-180° $\pm 0.1^\circ$	0°-180° $\pm 0.1^\circ$	0°-180° $\pm 0.1^\circ$
Camera System	Pixel Depth: 10 bit Progressive CMOS Sensor Global Shutter 60fps Optical Frame Rate 1280×1024 Pixels Pixel Size: 5.3 μm ×5.3 μm USB 3.0 Video Sequences	Pixel Depth: 10 bit Progressive CMOS Sensor Global Shutter 60fps Optical Frame Rate 1280×1024 Pixels Pixel Size: 5.3 μm ×5.3 μm USB 3.0 Video Sequences	Pixel Depth: 10 bit Progressive CMOS Sensor Global Shutter 60fps Optical Frame Rate 1280×1024 Pixels Pixel Size: 5.3 μm ×5.3 μm USB 3.0 Video Sequences
Optics	$\pm 1\text{mm}$ Working Distance Tolerance	$\pm 1\text{mm}$ Working Distance Tolerance	$\pm 1\text{mm}$ Working Distance Tolerance
Camera Back To Front Tilt	Manual	$\pm 10^\circ$	$\pm 10^\circ$
Lighting System	450nm Wavelength No Heat LED	450nm Wavelength No Heat LED	450nm Wavelength No Heat LED
Camera Sample Holder Positioning	Manual X & Z Direction Move Manual Z Direction Move	Motorized X & Z Direction Move Motorized Y & Z Direction Move	Motorized X & Z Direction Move Motorized Y & Z Direction Move
Position Adjustment Stroke Accuracy	Manual	2.5 cm $\pm 100\ \mu\text{m}$	2.5 cm $\pm 100\ \mu\text{m}$
Input Power Supply	USB 3.0 110/220 V, 50 W, AC	USB 3.0 110/220 V, 50 W, AC	USB 3.0 110/220 V, 50 W, AC
Jikan Assistant Software	Contact Angle & Surface Tension Measurement Module Included (Optional Surface Free Energy Measurement)	Contact Angle, Surface Tension & Surface Free Energy Measurement Module Included	Contact Angle, Surface Tension & Surface Free Energy Measurement Module Included
Computer Requirements	OS: Windows 8, 8.1, 10 (32-bit & 64-bit) CPU: Intel Core-2 Duo @ 1.3 GHz or Higher RAM: 1GB or Higher Disk Space: 2 Gb	OS: Windows 8, 8.1, 10 (32-bit & 64-bit) CPU: Intel Core-2 Duo @ 1.3 GHz or Higher RAM: 1GB or Higher Disk Space: 2 Gb	OS: Windows 8, 8.1, 10 (32-bit & 64-bit) CPU: Intel Core-2 Duo @ 1.3 GHz or Higher RAM: 1GB or Higher Disk Space: 2 Gb
Dispenser	Automatic Dispenser Nanoliter Resolution	Automatic Dispenser Nanoliter Resolution	Automatic Dispenser Nanoliter Resolution
Hardware Control	PC via Jikan Assistanst	PC via Jikan Assistanst (Optional 7" Touch Control Pad)	PC via Jikan Assistanst 7" Touch Control Pad
Weight	12 kg	13 kg	15 kg
Size	60 cm×25 cm×55 cm	55 cm × 30 cm × 50 cm	55 cm × 30 cm × 50 cm