Drop Shape Analyzer DSA100HP Specifications



Drop Shape Analyzer – DSA100HP (DSA100HP690 configuration)



KRŰSS

Product group specifications	DSA100HP40	DSA100HP690	DSA100HP1750
Camera system CF04 (standard)			
Connection Resolution Frame rate Dark noise Dynamic range High speed camera system CF06 (optional) Connection Resolution Frame rate Dark noise Dynamic range		USB 3.0 1920 × 1200 px 2300 fps 7 electrons 73 dB USB 3.0 640 × 480 px 3400 fps 10.5 electrons 56.6 dB	
Optics		50.0 UB	
Focus Zoom View angle Field of view Resolution	manual 7× zoom, manual ±4° with CF04: 3.9 × 3.9 to 24.7 × 24.7 mm with CF06: 1.7 × 1.3 to 10.8 × 8.1 mm with CF06: 3.1 to 21.7 µm with CF06: 2.5 to 17.8 µm		
Illumination			
Type Wave length, dominant Field of light	high power monochromatic LED 470 nm 46 mm × 46 mm (D × H)		
Dosing system			
Dosing Drop deposition		manual manual	
Piston, volume	2.5 mL	2.5 mL	11 mL



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Stages		x-axis (optional)	
Control Length	manual 10 mm		
Software			
ADVANCE	contact angle interfacial and surface tension of liquids		
Software languages			

Chinese (simplified), English, French, German, Japanese, Korean, Portuguese, Russian, Spanish

Measurement specifications	DSA100HP40	DSA100HP690	DSA100HP1750
Sessile drop/captive bubble			
Result Range (software-based) Resolution (software-based) Accuracy (instrument-based) Models Types	contact angle 0 to 180° 0.01° 0.1° conic section, polynomial, circle, Young-Laplace, height-width advancing, receding, static, dynamic		
Pendant drop/rising drop			
Results Range (software-based) Resolution (software-based) Model Types	interfacial and surface tension 0.01 to 2000 mN/m 0.01 mN/m Young-Laplace static, dynamic		

General specifications	DSA100HP40	DSA100HP690	DSA100HP1750
Sample dimensions			
Maximum sample space Maximum measuring length	40 cm ³	25 cm ³	25 cm ³
Pressure control			
Maximum pressure	40 bar (580 psi)	690 bar (10 000 psi)	1750 bar (25 000 psi)
Temperature control			
Type Range Flow-through thermostat	liquid 20 to 200 °C yes	electrical 20 to 200 °C -	electrical 20 to 250 °C -
Temperature measurement			
Range Resolution Precision Accuracy External sensor Locations		-50 to 400 °C 0.1 °C 1/3 DIN B (±0.1 °C at 0 °C to ±0.8 °C at 400 °C) 2 connectors (PT100 length) sample stage, chamber, cuvette	
Housing and peripherals		sample stage, chamber, cuvette	
Camera und optics housing		yes yes	
Environment			
Operating temperature Humidity		10 to 40 °C without condensation	
Instrument dimensions			
Footprint Height Weight (without accessories)		900 mm × 600 mm (W × D) 900 mm 80 kg	
Power supply			
Voltage (AC) Power consumption Frequency		88 to 264 V 100 W 50 to 60 Hz	
Interfaces			
PC.			

РС

USB 3.0