

SCALP-05 TECHNICAL SPECIFICATIONS

Overall dimensions (L*W*H):	56*27.5*76 mm	
Weight:	177 g	
Communication interface:	USB 2.0	
Power supply:	USB bus, 5V, 500mA	
Power consumption:	2.5 W	
Laser wavelength:	635 nm	
Laser output power:	5 mW	
Sensor resolution:	1280*1024 pixels	
Immersion:	Externally applied, min. n=1.46 (vegetable oils)	
Software:	Data capture and stress calculation software for Windows 7 or newer (.NET 4.5 is required)	
Measurement type:	Internal stress distribution through the thickness	
Measurable glass:	Flat glass and glass plates with radius > 50 mm	
Measurable surface side:	Air and tin side	
Thickness range:	1-6 mm (factory adjustable)	
Measurement time:	3 seconds (user adjustable)	
Minimum surface stress:	1.0 MPa	
Maximum stress:	Not limited	
Precision:	±1 MPa (surface stress <4 MPa) <5 % (surface stress >4 MPa)	
Accuracy:	Certification not completed yet	
Limitations:	Coatings (low-E, reflective, etc.), painted surfaces, glasses with texture	
Operating conditions:	+10 ... +50 °C	
Humidity:	0 ... 90 % R.H. (non-condensing)	
Ambient light:	Direct sunlight must be avoided, 50 lux or less recommended	
Calibration:	Calibrated by manufacturer	
Warranty:	2 years	