

KASON-DSM2 Digital Stress Meter



Note: The picture is for reference only

Product Functions

KASON-DSM2 is suitable for optical instrument factories, glass factories, glass product factories, laboratories and quality inspection institutions. It is used to measure the stress values of various glass products, optical glass, transparent plastic products and other optical materials.

This product has been strictly calibrated before delivery and complies with relevant domestic and international standards, including:

GB/T 4545 Test Method for Internal Stress of Glass Bottles and Jars

GB/T 12415 Test Method for Internal Stress of Pharmaceutical Glass Containers

GB/T 15726 Test Method for Internal Stress of Glass Apparatus

JC/T 655 Test Method for Internal Stress of Quartz Glass Products

YBB 00162003 National Standard for Pharmaceutical Packaging Containers (Materials) – Test Method for Internal Stress

ASTM C148 Standard Test Methods for Polariscopic Examination of Glass Containers

Product Features

This product is targeted to improve traditional dial-type stress meters and digital stress meters, enhancing measurement accuracy and user experience. It features high

measurement accuracy, zero calibration-free operation, and green energy-saving:

High-precision measurement: Adopts high-precision absolute angle encoder, with measurement accuracy better than 2 nm.

Dual-value LED display: Equipped with high-definition LED display, which can simultaneously show measurement angle and optical path difference for intuitive and easy reading.

Dark field without calibration: Dark field is precisely calibrated before delivery. With the absolute encoder, the dark field of the polarization field is always at zero angle, eliminating manual zero calibration and errors caused by human operation.

Green energy-saving: Uses eco-friendly LED light source, saving over 80% energy compared with traditional light sources.

Modular design: Ergonomic, easy for maintenance and repair.

Technical Parameters

Item	Specification
Model	KASON- DSM-2
Power supply	AC 220 V, 50 Hz
Measurement accuracy	≤ 2 nm
Zero reset error	≤ 2 nm
Optical path difference resolution	0.1 nm
Angle resolution	0.1°
Polarization field diameter	150 mm
Field brightness	> 800 lux
Rotation angle of analyzer	360° ($\pm 180^\circ$)
Polarization field spacing adjustment range	150–330 mm
Light source	LED, color temperature 3500 K
Power consumption	< 8 W
Test conditions	Standard laboratory environment

Item	Specification
Dimensions (L×W×H)	220 × 220 × 460 mm
Net weight	Approx. 8 kg
Compliant standards	GB/T 4545, GB/T 12415, GB/T 15726, JC/T 655, YBB 00162003, ASTM C148

FOCUS IN MATERIAL TEST

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