

Edge | Master™

Edge Stress Measurement System by
Stress Photonics Inc. **Works on Black Paint Band!**



Edge | Master™

The **EdgeMaster** is a photoelastic stress analysis system optimized for measuring edge stresses in clear or tinted glass—with or without black paint. The system works on windshields, sidelights, and backlights.

The **EdgeMaster** makes checking edge compression a snap. With the click of a mouse the system catalogs specimen data or generates a report.

Edge Stress Profile Reporting:

- Edge Compression
- Tension Maximum and Location
- Zero Stress Point Location
- Stress at a Specified Distance from the edge

Features:

- Simple Turn-key System
- Integrated Data Base
- Integral Calibration Standard
- Real-time Full-field Stress Images
- Immediate Quality Report

The **EdgeMaster** measures stress in:

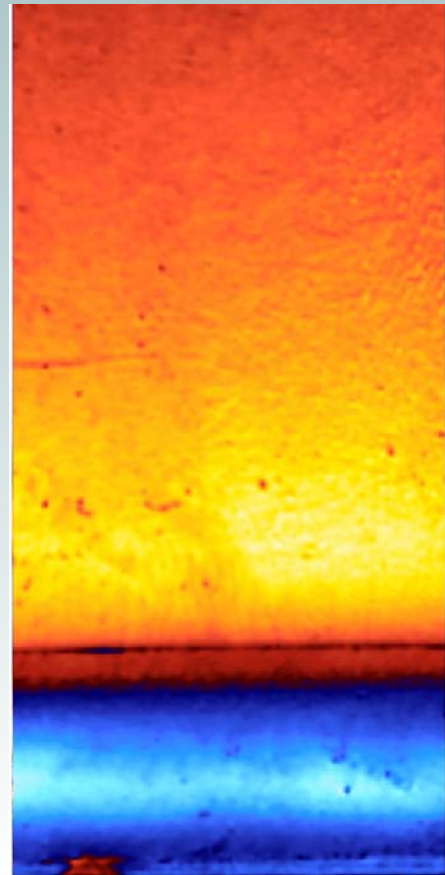
- Clear Glass
- Tinted Glass with >40% Transmissibility
- Tempered Glass
- Laminated Glass
- Coated Glass
- Black Painted Glass
- Flat or Curved Glass

One System - Two Models...

The **EdgeMaster** is available in two basic models:

- **EdgeMaster-Handheld**
- **EdgeMaster-Online**

Edge | Master™ Edge Stress Image



EdgeMaster-Handheld

(For rapid spot checks)

- Lightweight
- Portable
- Easy to reach integrated keypad
- Keypad triggered measurements

EdgeMaster-Online

(For automated or fixed position measurements)

- Rugged sealed optics
- Hardened mounting points for robotic operation
- Sweep mode with measurement quality assessment
- Electronically triggered measurement

The answer is clear™

**Stress
Photonics**

Edge | Master™

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SPECIFICATION	VALUE		UNITS
SPECIMEN	EM - Handheld	EM - Online	
Minimum Thickness	2	0.5	mm
Maximum Thickness	4	6	mm
Glass Types	Tempered, Laminated		
Tint	>40% Transmittance		
Coating	Not high reflection finished		
Edge Finish	Measures up to grind only		
MEASUREMENT			
Stress			
Measurement Range	±900		nm
Resolution (±275nm range)	±6		nm
Resolution (>±275nm)	10%		
Calibration Standard	Wave Plate		
Spatial Resolution	Better than 0.1		mm
Measurement Rate	20 sec/ position	>7 frames/sec	
INSTRUMENT			
Size (H x W x D)	25 x 30 x 15	25 x 28 x 13	cm
Weight	2.4	3.4	kg
Power	100-240 VAC, 3A 50-60Hz		

INCLUDES

- Computer, display, keyboard, and mouse
- Software
 - One click data collection
 - Data export via text, Excel, or database formats



Edge | Master™ Online (right) (Handheld unit pictured front.)

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