

Osprey® 8+

**Distortion + Flatness Inspection System
With Anisotropy Inspection**

LiteSentry™

Setting the Standard in Glass Inspection

STATE-OF-THE-ART
DISTORTION AND
ANISOTROPY
MEASUREMENT

ACTIONABLE
DATA FOR EVERY
GLASS SHEET

PROCESS CONTROL
TO ADDRESS
TEMPERING
STRESS

DETECTS
IRIDESCENCE
DURING
PRODUCTION

IMPROVES QUALITY
AND THROUGHPUT

OSPREY® 8+ **Distortion + Flatness Inspection System** **With Anisotropy Inspection**

Developed in partnership with Stress Photonics, the global leader in optical stress analysis, and designed for installation on any brand of tempering line.

Anisotropy – often seen as reflected iridescence – is a problem of growing interest to architects, developers, and building owners. It is a natural result of the tempering process when unbalanced residual temper stress selectively reflects polarized light.

LiteSentry, with Stress Photonics offers Anisotropy Inspection integrated with the Osprey Distortion + Flatness Inspection system. With two state-of-the-art inspection systems housed in a single unit, the Osprey 8+ provides 100% inspection, offering visualization and quantification of the most challenging problems in glass fabrication.

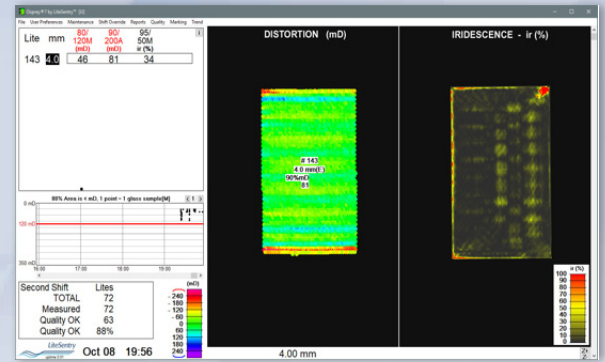


***Stress
Photonics***

Osprey® 8+ with Anisotropy Inspection

Iridescence is frequently visible when glass reflects the polarized light of blue skies or water. In these situations, light that would naturally pass through the glass rotates, causing shimmering patterns where glass stress is high and reflected, and dark patterns where stress is low and transmitted.

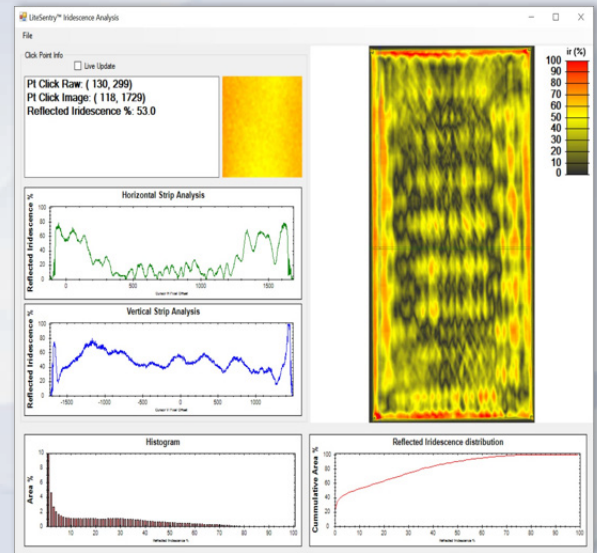
Standard Osprey Distortion plus Anisotropy image side by side »



Osprey® 8+ with Anisotropy Inspection uses Stress Photonics Grey-Field Polariscopes cameras and polarized transmitted light to detect anisotropy effects in every sheet of glass. Combined with its industry-leading distortion inspection capability, the Osprey offers the most complete glass inspection system for tempered glass.

- » Distortion Inspection: High-resolution visible light cameras and a patented reflected white LED light source measures flatness and distortion.
- » Anisotropy Inspection: Patented Grey-Field Polariscopes (GFP) cameras and a patent-pending polarized transmitted light array mounted under the glass measures iridescence and average stress.

Anisotropy Iridescence results with dynamic analysis charts »



Osprey® 8+ with Anisotropy Inspection can be installed on any brand of tempering line:

- » Fully integrated grey-field polariscopes system manufactured by Stress Photonics, a leader in the optical stress analysis for over 20 years.
- » Real-time inspection and data collection at six polarization angles.
- » A map of the predicted iridescence for every part on a scale of 0-100% of maximum possible value.
- » A map of average stress for every part.
- » User-defined quality thresholds for the judgment of iridescences, similar to the Osprey's proven quality thresholding methods for optical distortion.
- » Data and images of every part are saved. Traceable and audible, allowing for full accountability.

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- » **OSPREY 8** » Distortion + Flatness Inspection
- » **OSPREY 8+** » Distortion + Flatness with Anisotropy Inspection
- » **HAWK** » Scratch + Defect Inspection
- » **OWL** » Recipe Selection + Tempering Furnace Control
- » **RAVEN** » Thickness + Coating Sensor
- » **FALCON** » Precision Size + Geometry Inspection
- » **LOAD VALIDATOR** » Load Geometry + Fault Condition Detection