

# Owl<sup>®</sup> 3

## Recipe Selection + Fault Detection System for Tempered Glass

LiteSentry<sup>™</sup>

Setting the Standard in Glass Inspection

INCREASES  
THROUGHPUT AND  
LINE EFFICIENCY

OPTIMIZES RECIPE  
SELECTION AND  
FURNACE CONTROL

ENSURES CORRECT  
LOAD GEOMETRY

IMPROVES OPTICAL  
QUALITY

DETECTS FAULTS  
BEFORE

GLASS ENTERS  
CRITICAL PROCESSES

INCREASES PROFITS

## OWL<sup>®</sup> 3

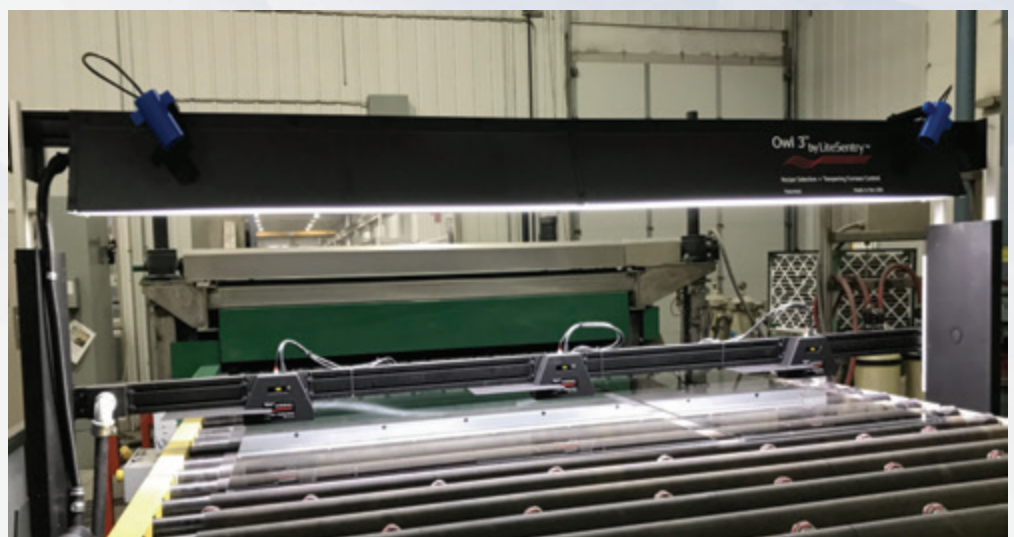
### Recipe Selection + Fault Detection System for Tempered Glass

The Owl<sup>®</sup> 3 Recipe Selection + Fault Detection System is a rugged, non-contact optical system aimed at improve tempering or coating process. The Owl measures glass thickness, type of low-E coating (one, two, or three silver layers, as well as fourth surface low-E), glass dimensions, and sheet locations.

A key element of a comprehensive quality inspection system, the Owl<sup>®</sup> 3 provides accurate, repeatable, consistent measurement of glass size, load size, and critical fault conditions likely to cause glass breakage and subsequent interruption to coating or tempering systems.

Productivity and quality have been proven to increase over 20%!

The Owl<sup>®</sup> 3 works on batch tempering lines and is effective on clear glass, hard or soft coat low-E, tinted or reflective glass. The system measures glass widths of 500-3,500 mm (20-138 inches).



# Owl® 3 Recipe Selection + Fault Detection System for Tempered Glass

## FEATURES

- » Automatic furnace control selects recipe, heat time, and heat profile
- » Optimized heat time/profile saves seconds on every load, increasing production
- » Improves optical quality by preventing overheating of small loads and underheating of large loads
- » Reduces lost production due to recipe changes
- » Eliminates operator errors due to incorrect inputs
- » Fourth surface low-E coating detection (i89 or IS15)
- » Real-time, 100% inspection and location of every glass sheet and overall geometry preventing the defective material from further processing.

## Data Outputs to the Furnace

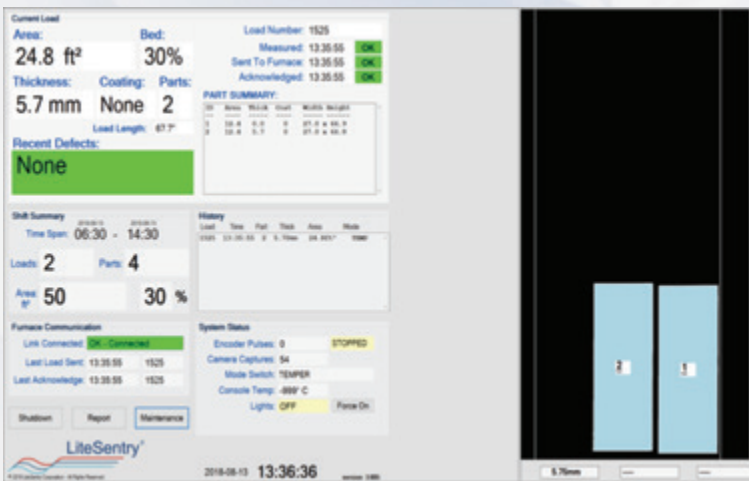
- » Area and location of each glass sheet
- » Thickness and coating type
- » Bed yield or percent bed utilization

## Data for Production Management

- » Quality and throughput statistics by line, shift, day
- » Cumulative yield for shift, day, week

## Faults Detected

- » Wide load, part overlap, vent or short crack, broken glass, short part, minimum distance between parts, corner off, and long load



« Actual Owl® Display Screen



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- » **OSPREY® 9 Complete** » Anisotropy, Distortion + Flatness Inspection
- » **OSPREY® 9 Distortion** » Distortion + Flatness Inspection
- » **TemperQC™** » Complete Tempering Quality Control System
- » **HAWK® 4** » Scratch + Defect Inspection
- » **OWL® 3** » Recipe Selection + Fault Detection
- » **RAVEN™ 12** » Thickness + Coating Sensor
- » **FALCON®** » Precision Size + Geometry Inspection
- » **LOAD VALIDATOR™** » Load Geometry + Fault Condition Detection