

Raven™ 12

Thickness + Coating Sensor

LiteSentry™

Setting the Standard in Glass Inspection

ENSURES
CORRECT
COATINGS AND
CORRECT
SURFACES IN
REAL TIME

NON-CONTACT
OPTICAL
INSPECTION
OF ALL GLASS,
ALL THE TIME

PREVENTS
INCORRECTLY
ASSEMBLED
IG UNITS

RAVEN™ 12 Thickness + Coating Sensor

The Raven™ by LiteSentry™ measures moving or stationary glass to +/-0.1 mm in real time. The non-contact glass thickness sensor mounts in any orientation on the glass line – above, below, front, or rear. Its rugged aluminum and steel housing is designed for demanding industrial environments.

The Raven provides 100% inspection and automated data collection, replacing periodic human inspection. The Raven sensor monitors glass thickness, coating, and coated side. It also can be used to conform IG make-up, including glass thickness and airspace gap.

Features

- » LED-based spectrometer, integral electronics, and embedded algorithms
- » Real-time, 100% inspection at glass velocities up to 700 mm/s
- » Discriminates clear from single, double, and triple silver, and 4th surface (i89 or IS15) low-E coatings
- » Thickness measurement range: 0–35.0 mm
- » Accurate to +/-0.1 mm for 0–8 mm glass thickness and +/- 0.2 mm for 9–35 mm glass thickness
- » Outputs: Local alphanumeric LCD display of thickness and coating and remote XML output

Raven 12 Applications

	Single Pane	Dual Pane IG	Triple Pane IG
Glass Thickness	0-22 mm	0-32 mm	0-32 mm
Side on which low-E is present	Yes	Yes	No
Low-E Coating Detection	Yes, on any one surface		No
Low-E Coating Discrimination	By type, # of AG layers, etc.		No
Substrates	Clear, low-E, absorbing, etc. > 10% Transmission		

The Bottom Line

The Raven confirms critical dimensions and eliminates costly errors. When quality is on the line, the Raven sees it all!



RAVEN™ 12 Integrated Controller + Alarm

Features

- » Rugged steel pedestal stand for mounting the Raven sensor and Integrated Controller unit on vertical or horizontal IG lines
- » Electrical NEMA enclosure with processor, 24 VDC power supply, and wiring
- » ON/OFF switch, alarm light, audible alarm, reset switch
- » 7-inch HMI display shows data output from Raven sensor (surface 1 / glass thickness / surface 2), documenting coatings (clear or low-E) and thickness of monolithic glass or laminate
- » Allows custom, user-defined inspection criteria that trigger alarm conditions
- » Power and network cables to Raven sensors included



The Complete RAVEN™ 12 Installation

The complete Raven system includes a stand-mounted Integrated Controller + Alarm and one or more Raven Thickness + Coating Sensors. Designed for easy installation and maintenance, the Raven will detect glass thickness and coating, provide precise measurement of thickness and coatings, and sound audible and visual alarms when glass is out of conformance with user-defined criteria.



LiteSentry™ Corporation

1403 F Heritage Drive
Northfield, Minnesota 55057 USA
TEL: +1.507.645.2600
EMAIL: sales4@litesentry.com

[LiteSentry.com](http://litesentry.com)

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- » **HAWK 4** » Scratch + Defect Inspection
- » **OWL 2** » Recipe Selection + Tempering Furnace Control
- » **FALCON** » Precision Size + Geometry Inspection
- » **LOAD VALIDATOR** » Load Geometry + Fault Condition Detection