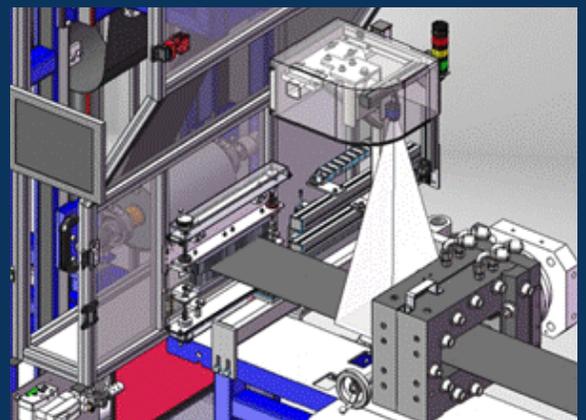# CordSight™ Extrusion Thermal Inspection System

Bringing Extrusion Inspection to a Whole New Level

As the tire industry continues to drive for higher performance, better quality, and lower scrap, there is an ever-increasing demand to verify all components meet specifications.

WHAT IS CORDSIGHT™?

Take an inside look at extruded steel and textile reinforced rubber with the CordSight™ Extrusion Thermal Inspection System. This system scans for missing cords, and a range of extrusion defects, all with thermal imaging technology. Improve the quality of your tires with the CordSight™ Extrusion Thermal Inspection System.

How it Works:

The CordSight™ Extrusion Thermal Inspection System uses infrared thermography to detect steel or textile cord breakage and a range of extrusion defects in real time. After reinforced rubber is extruded, it passes beneath the system where surface temperature is analyzed to identify irregular heat patterns caused by missing cords, missing rubber, uneven edge fill-out, and other extrusion defects. Thermal images are displayed on the operator interface, allowing operators to quickly identify issues as they occur. When a defect is detected, the system can trigger an alarm, or automatically stop the process so the problem can be addressed immediately, helping manufacturers reduce scrap, save time and materials, and produce consistently high-quality tires.
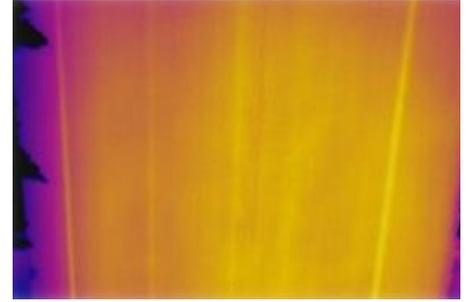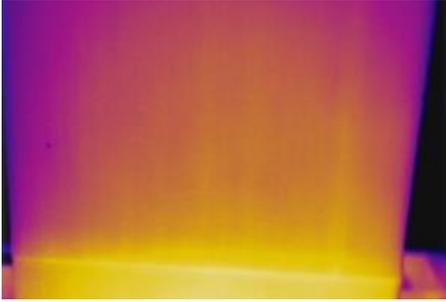
Key Benefits

Identify Defects Before Processing

Reduce Scrap Material Waste

Provide Visual Thermal Inspection

Improve Consistency and Performance

Specifications:

Specifications	Value
Power Requirements:	24VDC, 5A
Camera Resolution:	480 x 640 pixels
HMI Display:	15", 4:3 ratio Touch
Ethernet Communication:	None
Extrusion System Interface:	Digital IO, opto-isolated. See CordSight Interface for details.
Die Widths:	8" (203mm) or 10" (254mm)
Total Number of Strips:	Configurable from 1 to 20
Cord Material:	Steel or Textile (Note: cannot be used with cord heaters)
Minimum Line Speed:	2 m/min typical, some applications may require higher speeds.
Minimum Cord Crosssectional Area:	See Note 1
Maximum Strip Gauge:	Based on Cord Cross-sectional area. See Note 1.

Note 1: CordSight™ has been tested with various cord types and sizes (cord cross-sectional areas) as well as strip dimensions (EPI and rubber thickness). Though CordSight™ is capable of a wide range of strips, it is recommended to confirm strip properties with Steelastic® for validation.