Model 3050 OPTOMIZER® Pinhole Detection Technology

RKB OPTOELECTRONICS

Monitor Pinholes

Our Model 3050 OPTOMIZER® Pinhole Detection Technology makes it possible to economically add pinhole detection capabilities to your web manufacturing processes. The system combines a high speed CCD Line Scan Sensor with state-of-the-art signal processing technologies to achieve very high resolution detection of pinhole defects. Depending on web speed, defects as small as 0.0008 sq. mm can be detected. The sensor housing of the system is designed for mounting to existing process control equipment, such as a basis weight measurement sensor, that is capable of providing motion in the cross machine direction. Mounted to such equipment, the Model 3050 OPTOMIZER® can provide continuous sampling inspection of the web material.

Analyze Trends

Our QAMS® Quality Assurance Management System software is included with each system to provide charting, footage tracking, product code identification, material and process traceability, real time and historical reporting, on-line diagnostics, and additional control and analysis functions.

MODEL 3050™

TECHNICAL SPECIFICATIONS

Defects Types Detected:	Pinholes
Minimum Detectable Defect:	0.00008 sq. mm
Maximum Web Speed:	10,000 ft./min. (3,048 m/min.)
Basis Weight Range:	Subject to Tests
Material Color Range:	Subject to Tests
Line Scan Cameras: Type: Lens Focal Length: Field Of View (FOV): Maximum Data Rate: Pixel Resolution:	 1024 25 mm 2" (5.08 cm) Min. 20-60 MHz To 0.001" (0.025 mm) In Cross Machine Direction
Material Color Range:	Unlimited
Illumination:	Proprietary
Ambient Temperature:	40 to 160° F (4 to 70° C)
Power:	120/220/240 VAC 50/60 Hz Single Phase 2.5 - 5 KW

Specifications are subject to change without notice.

Permanently Identify Defects

Our Model 1280 Guardian® Multicolor Edge Marking™ Technology can be combined with the Model 3050 OPTOMIZER® Pinhole Detection System to provide visible edge marks for permanent identification of defect locations within each roll. These marks can be detected by on-line sensors for automatic control of subsequent processing equipment such as coaters, slitters, sheeters, and rewinders. These marks can also be detected visually as concentric circles on the outside edge of the roll for manual sorting or grading operations.

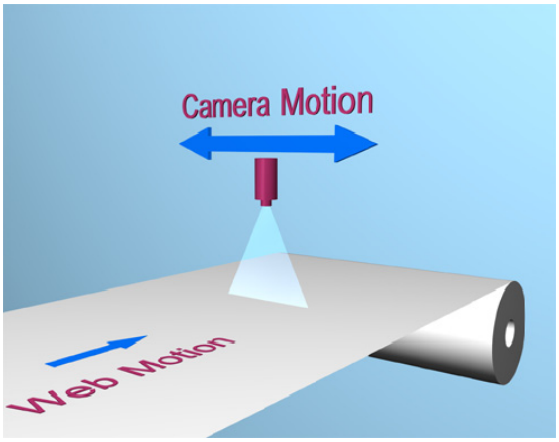
R.K.B. OPTO-ELECTRONICS, INC.

6677 Moore Road • Syracuse, New York • 13211 • United States of America

Tel: +001-315-455-6636 • Fax: +001-315-455-8216 • Email: sales@rkbopto.com

Internet: www.rkbopto.com / www.webinspection.us / www.hole-detection.com

Model 3050 OPTOMIZER® Pinhole Detection Technology

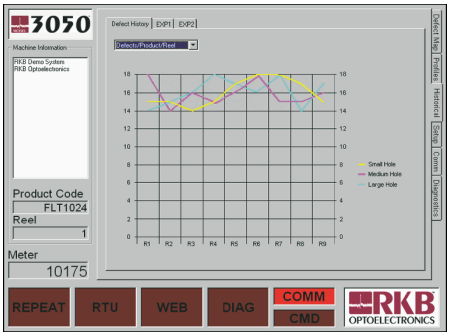


Reliability Equals Profit

The reliability of our 3050 OPTOMIZER® Pinhole Detection Technology is unparalleled in the industry. Regardless of the application, machine or surroundings, our sensors will not quit. Our technology does not require operational intervention, adjustments, re-calibration and monitoring, unlike competitive solutions. Our technology is not designed as the "Quick Fix", but is a committed investment that ensures cost effective quality assurance and control that translates into a much higher ROI and increased profitability.

Process Diverse Materials

Our 3050 OPTOMIZER® Pinhole Detection Technology provides accurate, consistent, and reliable on-line inspection for a wide variety of web materials including cotton fiber bond, embossed; text; and specialty papers, de-inked recycled papers, films, gloss and matt coated offset and rotogravure papers, lightweight coated groundwood papers, magnetic media, metals and foils, plastics, textiles and rubber.



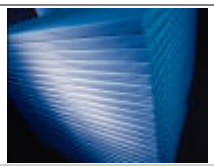
Simple, Quick and Effective

Easy to set up and operate, and harmonious with logic systems and programmable controllers, the MV-PHS3050 pinhole analysis technology can be easily integrated on any application that calls for the detection of and analysis of pinhole type defects contained within the web material process. Modular in design, our pinhole analysis technology does not require intervention, complicated setup procedures or constant tweaking.

Call RKB

Call us to discuss your applications and to learn more about the industry's most complete line of web inspection related products.

Art Paper



Recycled Paper

Coated Base Paper

Tapes

Metallized

R.K.B. OPTO-ELECTRONICS, INC.

6677 Moore Road • Syracuse, New York • 13211 • United States of America

Tel: +001-315-455-6636 • Fax: +001-315-455-8216 • Email: sales@rkbopto.com

Internet: www.rkbopto.com / www.webinspection.us / www.hole-detection.com