PLASTIC FILM INSPECTION

100% Vision Inspection for Plastic Films

Our Film inspection systems use cutting-edge machine vision and illumination design. Utilizing the latest area scan camera technology, we employ different types of illumination for enhanced defect detection capabilities - bright field, dark field, distortion measurement and more – all using a single array of cameras.

Our unique design based on area cameras enables optimal viewing angles regardless of film width or limited installation space and allows robust detection unaffected by film vibrations.

Our system configurations are customized to provide the best ROI and to meet your quality requirements. From simple solutions designed to meet the most basic requirements and up to the most challenging applications and needs such as transparent optical films, double-sided inspection of opaque films, high speeds and large widths.

This turn-key solution to all of your film inspection challenges includes installation, startup and comprehensive training and support for your operators and maintenance personnel

inspec.tech

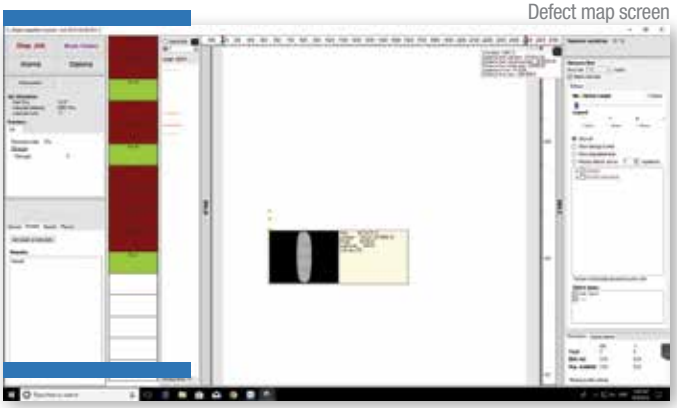
Main Feature

- Detection of the complete range of defects including scratches, crystals, gels, bubbles, black specks, contamination, etc
- 100% on-line distortion measurement for optical films
- Line-stream integration, slitting, rewinding, marking
- Complete run documentation

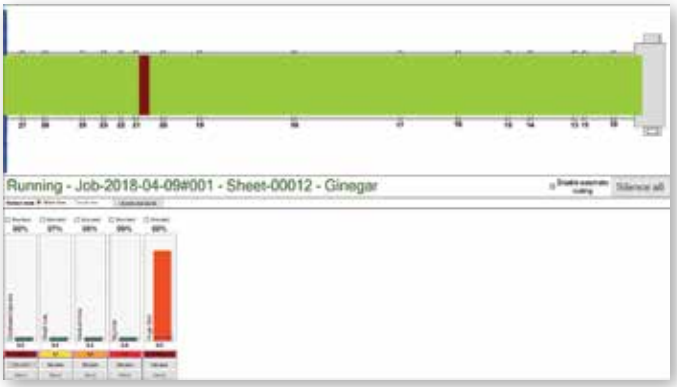
Advantages

- Higher product quality and yield.
- User friendly yet sophisticated Windows-based interface
- Lower manufacturing costs through targeted process improvements
- Designed specifically for film manufacturers and converters

Defect map screen



Line screen



Specification / Application Range

Specifications	Minimum	Maximum	Comments
Line width (mm)	-	unlimited	-
Resolution	300 microns / pixel 12 mil / pixel	30 microns / pixel 1.2 mil / pixel	Other resolutions available upon request
Line Speed	-	1,000 meters / minute 3,300 feet / minute	Depends on required resolution
Distortion measurement spatial resolution	3mm/0.12"	0.3mm/0.12"	-
Illumination Types	Dark field, Bright field and more	Transmitted and reflected according to product type	-
Distortion measurement method	According to DIN 52305 (refractive power)		With higher spatial resolution
Product Types	Clear, translucent, tinted and opaque films		Optical and non-optical

CONTACT US FOR MORE INFORMATION
info@inspec.tech | www.inspec.tech

inspec.tech