

GUARDIAN NIR

SCANNING FRAME SYSTEM

Applications Include:

- Moisture and Coat Weight
- Pressure Sensitive Adhesives
- Hot Melts
- Extruded Plastics
- Carbonless Coatings
- Films

- Non-wovens
- Textiles
- Reconstituted
- Paper
- Release Liners
- Re-moisturizers

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SCANNING FRAME SYSTEM

MOISTURE • COAT WEIGHT • THICKNESS





For complete information on this and all Process Sensors instruments and accessories, please visit our website:





Scanning Frame

- Aluminum Extrusion (up to 200 inches)
- Internal Timing Belt Drive
- Flexible Cable Track for Power and Signals
- Safety Limit Switches
- 90-260 VAC/50/60 Hz, 1.5 Amp
- 24 VDC Power Optional

Profile Display System

- CD Cross Direction Zone Average
- · Machine Direction Trend
- Up to 50 Zone Average Updates
- Adjustable Target And Alarm Levels
- · Product Identification, Date, And Time
- Product Recipe Includes Scan Speed,
 Scan Width, Park Position

Flat-Panel Touch Screen Display

- 19" Resistive Touchscreen Flat Panel Display
- Panel. Wall & Moveable Arm Mount
- 1200 x 800 VGA Resolution
- · Windows XP, 80 GB HD, 2GB RAM, CD ROM

Guard Your Quality Assurance!

The MCT-360 Near Infrared (NIR) Transmitter measures reflected near Infrared light at well defined wavelengths. The common bonds are O-H in water and C-H in organics. The light reflected and measured at these specific wavelengths is proportional to the quantity of moisture, coat weight, or film thickness. The Guardian NIR Scanning Frame System provides FAST, ACCURATE, AND RELIABLE ON-LINE MEASUREMENT!

Improve Your Productivity!

Reduce rework and scrap. No waiting for laboratory results to confirm "guesstimates". Optimize coaters, extruders, remoisturizers, and blown film for **FASTER START UP!**

Guard Your Brand!

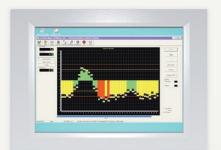
Know with every shipment that every order has been measured and recorded to meet your high quality standards. Guard against ineffective release, paper curl, or out-of-spec product.

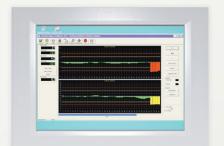


Easy to Operate!

Our Profile Display Software is a Windows-based CD Cross Direction web profile package designed to be easy to view and comprehend. Up to six profiles can be viewed on screen for two separate scanning frames.

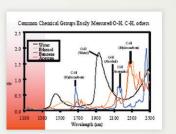
The software also features alarms, alerts and recorded histories to help safeguard productivity. Set up unlimited product codes and associated web width recipes.





- Add numerical values to your zoned graphs
- Add additional profiles easily
- Measure both wet end coat weight and dry end moistures

The Science Behind the Measurement



NIR Transmitter Principle of Operation

Narrow band pass filters within the Transmitter create a sequence of light pulses. At least one of these wavelengths is specific to the measured component. The other wavelengths are not absorbed by the component, and these are used as reference wavelengths. The energy absorbed at the measured wavelength is directly proportional to the component.