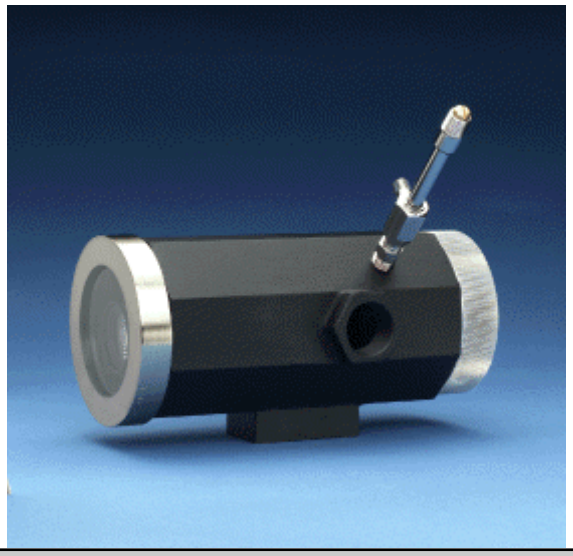
CANTY

PROCESS TECHNOLOGY

Thickness Measurement System



HOW IT WORKS

The Canty Thickness Measurement System can be setup in two separate configurations dependant on the process needs. One would be the STANDARD EDGE METHOD means to measure thickness, which would be to visually monitor the side of the product and determine it's thickness. The second means to determine thickness is with the SHADOW TRACKING METHOD. The shadow tracking method views the shadow, from a fixed object and light source, with a Canty Surveillance Camera and measures the position change of the shadow on the surface of the material. The position change correlates directly to the change in thickness of the material being measured.

THE CANTY ADVANTAGE

INCREASE PRODUCTIVITY & YIELD

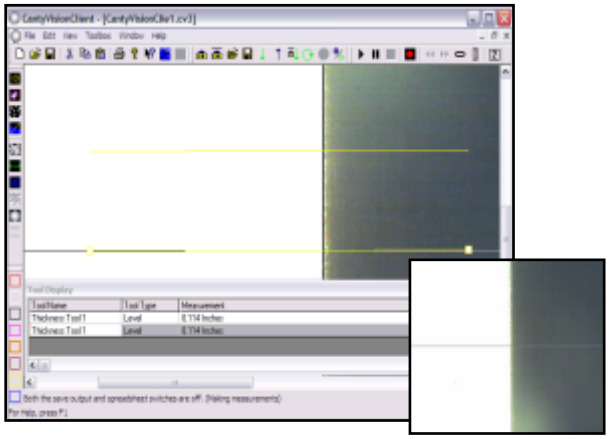
The Canty Thickness Measurement System provides online thickness measurements that will allow for further process control and productivity. The ability to understand the thickness of a material allows operators to know exactly when the optimal thickness has been reached, reducing any time spent over-processing products. Not only can productivity be increased, but yield can be increase as well by providing high quality finished products with a uniform thickness.

FEATURES

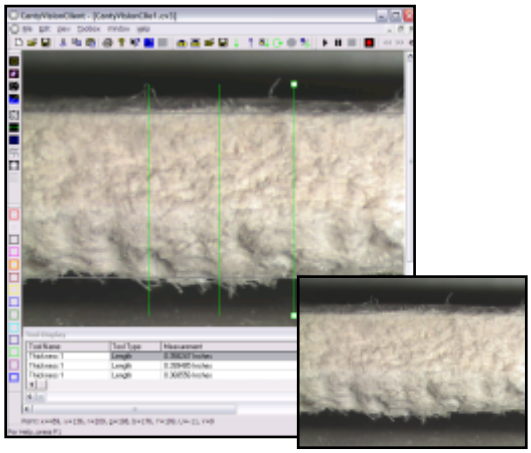
- Measurement Within 0.001 inches Resolution
- Real Time Thickness Measurement
- Ability To Use Multiple Measurement Tools
- Visual Verification Of Process

APPLICATIONS

- Industrial Filter Manufacturing
- Plate Steel Real Time Measurement
- Paper Thickness Measurement
- Textile Industry
- Measure Uniformity Across A Material
- And Many More



Analyzed Image by CantyVision™ with SHADOW TRACKING METHOD For Thickness Measurement



Analyzed Image by CantyVision™ with STANDARD EDGE METHOD Thickness Measurement

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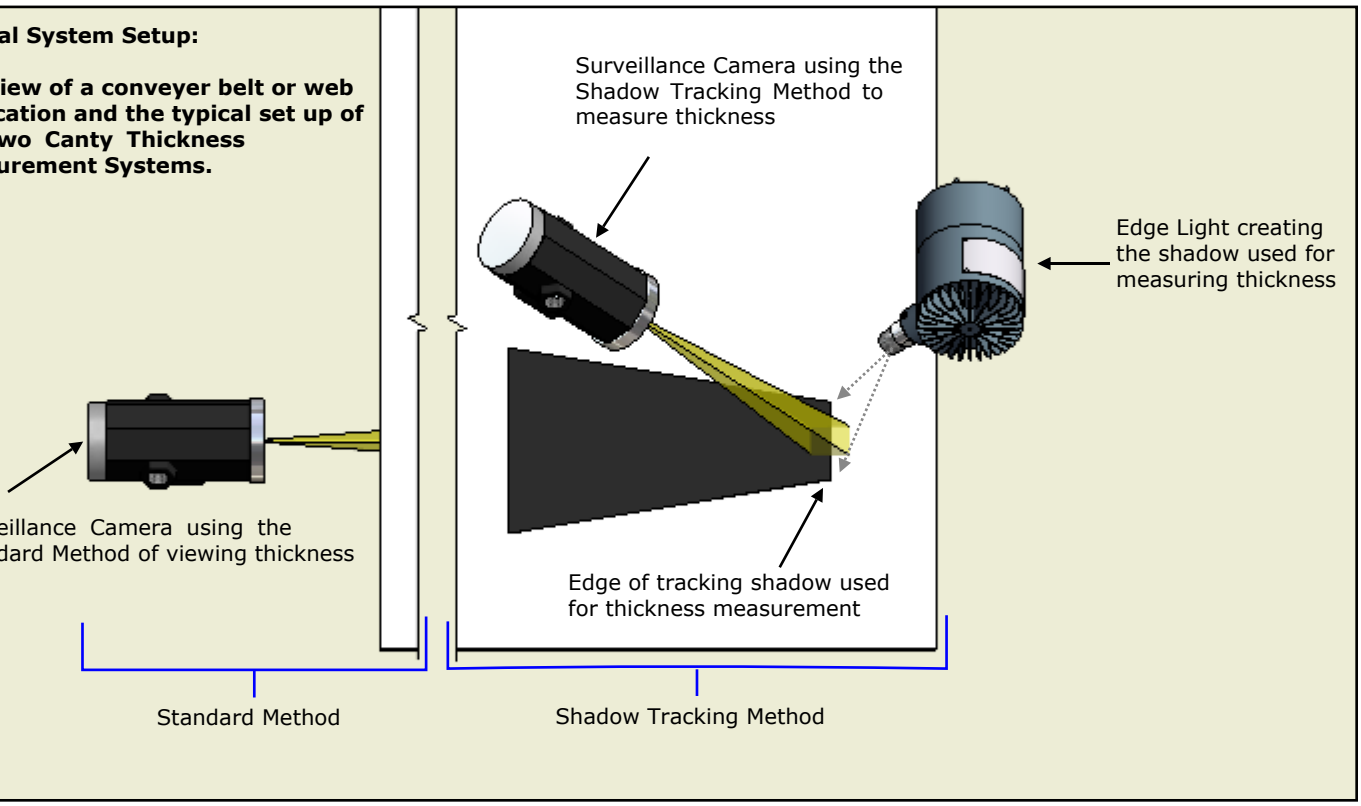
TECHNICAL INFORMATION

Typical System Setup:

Top view of a conveyer belt or web application and the typical set up of the two Canty Thickness Measurement Systems.



The part designated below is used in most of the applications for thickness measurement, additional options are available upon request

HOW TO ORDER: Select the appropriate symbols and build a part number for each camera:

EXAMPLE: **VTHKSE5011-WP-1-1**

VIDEO OUTPUT FORMAT
VTHKS - Vision System
NTSC (North American Standard)
VTHKE - Vision System
PAL (European Standard)

CAMERA OPTIONS
E - Ethernet Camera, Color
R - Ethernet Camera, B & W Near IR

CAMERA APPLICATION
5 - Surveillance

CAMERA PSU ENVIRONMENTAL RATING
0 - Non WP or EXP camera power supply
1 - WP camera power supply

LENS OPTION AND APPROXIMATE LENS VIEW ANGLES
1 - Manual iris lens with standard view angle, 41°H x 31°V
4 - Manual iris lens with standard view angle, 22°H x 17°V
6 - Manual iris lens with narrow view angle, 7°H x 5°V
7 - 6x Zoom Lens with Auto Iris, 8 - 48mm FL
Provides view angles: 43°H x 33°V at 8mm

CAMERA ENCLOSURE ENVIRONMENTAL RATING/INPUT VOLTAGE
WP - Weather Proof, NEMA 4 and IP66 rated.
User supplies 120V AC
IP - Weather Proof, NEMA 4 and IP66 rated.
User supplies 240V AC

ADDITIONAL OPTIONS
1 - No additional options
2 - Cooling Tube
3 - Spray Ring
4 - Spray Ring and Cooling Tube

EDGELIGHT OPTIONS
1 - HYL 80 (120 V), w/ Shadow Edge
2 - HYL 80 (240 V), w/ Shadow Edge
N - No Lighting Needed

THICKNESS MEASUREMENT METHOD
1 - Shadow Tracking Method
2 - Standard Edge Method

Reference Data Sheet VD10474-110 for optional mounting bracket details.
*4-20 mA output available by selecting module from datasheet TA9688-1 Ethernet Current Loop Output Options. Sold separately.
* Please Note That A Customer Supplied Shroud Above The Viewing / Measuring Area Is Needed To Reduce Ambient Light To A Minimal. This Allows For Optimal Thickness Measurement

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