MONTROSE TECHNOLOGIES INC.

Advanced Vision systems form the clearest picture

MT-12

The MT-12 provides high speed digital vision analysis of individual objects traveling at speeds of up to 600 feet per minute on a belt of 12 inches (or less) width.

With a maximum through-put of 50 objects per second (3000 per minute or 15,000 dozen per hour) it is more than capable of providing unparalleled performance. The systems are designed to compliment your production environment with the minimum of disruption. An Over-line system can quite literally be installed and operating in minutes. A turnkey In/line system provides the flexibility of an unlimited number of conveyor belt types and lengths. A variety of rejection and flow management options, including side discharge, downward air blast and robotic picking allow you to tailor the system to meet your needs.

By collecting information relative to product quality, it tracks and stores bake characteristics for all objects irrespective of belt location and orientation making line performance information available at any time of the day or night. When coupled with an automated, discriminatory rejection unit and an MT-AIMHS (Adaptive Intelligent Material Handling System), the need for manual inspection can be eliminated.

If needed, the MT-12's modular design allows it to be moved quickly and easily from 1 line to another even if the next line is running completely different products and/or the line is wider than 12 inches. All the electronics and cabinets are built into the units frame so the entire footprint is minimized.

Belt heights are from 24" to 48" and products with profiles as high as 8" can be analyzed. Frames and enclosures are made from stainless steel and all electronics cabinets are air conditioned and insulated to provide thermal protection.

If you would like to find out more about the MT-12 or any Montrose Technologies solutions and how they can improve line efficiency and save you money we'd be pleased to talk to you about it.

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MT-12 Specifications

Measurement Accuracies

Height:	better than 0.5 mm
Length/Width:	+/-1.0 mm
Total Volume:	1%
Diameter:	+/-1.0 mm
Color:	+/-1dbu

Object Characteristics

Throughput:	Up to 50 objects per second (30000/min)
Max. Length:	User defined (based on belt length)
Max width	300 mm (12 inches) across belt
Max. Height:	200 mm (8inches)

Computing

CPU:	Intel dual core Pentium
HDD:	100GB
Memory:	1GB
Interface:	VGA Touchscreen
OS:	WinXP
Comms	Ethernet(10/100BaseT), modem, serial, USB
Field of View	less than 1 inch to 12 inches
2D Imaging	1K color (CamLink) line scan (upgradeable to 2K or 4K resolution)
3D Profiling	1K CamLink area scan (upgradeable to 2K or 4K resolution)

Environmental

Max. Temp.:	50° C (122° F)
Min. Temp:	2° C (36° F)
Humidity:	5% to 95% (non-condensing)
Temp control:	Air conditioned cabinets and enclosures

Structural

Frame.:	Square tube stainless steel
Enclosures:	1/8in Polished Stainless steel
Belt Height:	39" (+/- 5")

Power

Elec. Enclosure:	20A @ 120/240 VAC/60Hz , 1PH
Conveyor Drive:	6A @:240,460,575/ VAC/60Hz,3PH
Air:	30cfm @ 80psig (min)

* All specifications subject to change without notice.

System Options:

Rejection Subsytem

Virtually unlimited conveyor types

Object redirection/flow management

Recirculation, accumulation, flow control

NEMA4x Rating

Additional user interface

Alarms - visual and/or audible

External device interface support

Robotic/intelligent material handling

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