In-Line Inspection

LM3 Technologies' in-line inspection solutions seamlessly integrate into existing production lines, providing real-time quality control and defect detection. These systems utilize advanced vision technologies, ensuring precise and continuous monitoring of parts and assemblies without disrupting throughput, improving efficiency and reducing scrap and rework costs.

PAQi Controller Unit The central processing hub for real-time AI analysis and data management.

Cameras with Housing High-resolution imaging devices securely mounted for stable and consistent capture.

Breakout Box Facilitates organized and efficient connections for cameras, lighting, and system control.

Adjustable Lighting Optimized illumination to highlight defects and ensure accurate inspection under varying line conditions.

Technical Capabilities

- High-Speed Inspection: Capable of analyzing thousands of parts per hour with precision.
- Seamless Integration: Interfaces with PLCs and factory networks using standard industrial protocols.
- Defect Detection: Al-powered models identify defects, validate ٠ presence, and ensure dimensional accuracy in real time.
- **Lighting Optimization**: Adjustable RGBW lighting ensures ٠ consistent imaging across varying part materials and conditions.
- Scalability: Modular design accommodates additional cameras ٠ or sensors for expanding inspection needs.
- Data Storage and Traceability: Logs inspection data for traceability and continuous improvement.



Automotive

Medical

Molding



Electronics

System Integration

Hardware Installation

Assement and Planning

System Design

Image Collection & AI Training

Validation and Deployment





Advantages

- Real-Time Accuracy: Detects defects instantly, • minimizing downtime and production waste.
- Improved Efficiency: Eliminates manual inspections, accelerating throughput without compromising quality.
- Customizable Design: Tailored configurations meet diverse production line requirements.
- Cost Savings: Reduces scrap, rework, and labor costs.

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Fast and Easy: Easily attaches to existing production • processes for easy inspection setup.





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