



20/20 ROBOTICS

**The Perfect Vision
of your Automated Future**

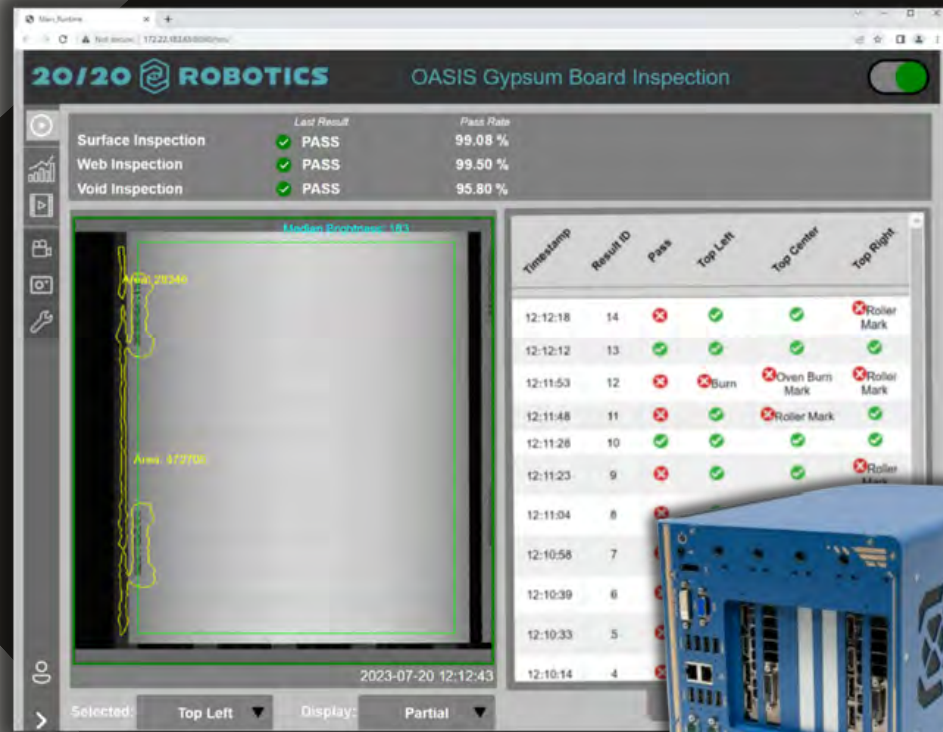
**OPTICAL
AI
SURFACE
INSPECTION
SYSTEM**



DEFECT EXAMPLES



OASIS HMI



20/20 ROBOTICS leverages artificial intelligence techniques to process and analyze images captured by various types of cameras, including line scan, area scan, and thermal.

This system is designed to detect defects and anomalies in gypsum products with a level of accuracy and efficiency that was previously challenging to achieve using traditional vision methods.

WHY AI?

The use of AI in this vision system revolutionizes defect detection in gypsum products by enabling:

- **Higher Accuracy:** AI models can detect subtle defects that might have been overlooked by traditional methods, resulting in better overall product quality.
- **Speed and Efficiency:** The real-time processing capability of AI allows for rapid detection, improving the throughput of the production line.
- **Multi-Camera Compatibility:** The system's ability to handle different camera types ensures a comprehensive analysis, covering various product attributes. The system can also image multiple streams of board, inspecting simultaneously by the same processor allowing for 100% inspection.
- **Complex Pattern Recognition:** AI excels at recognizing complex patterns and variations, making it ideal for identifying defects in diverse gypsum products.
- **Reduced Human Error:** By automating the process, the reliance on human visual inspection is minimized, reducing the chances of errors and fatigue-related oversights.

In summary, an AI-Based Vision System that integrates multiple camera types, along with advanced AI techniques, empowers manufacturers to detect defects in gypsum products more accurately and efficiently than ever before. This technology represents a significant leap forward in quality control and production optimization.



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