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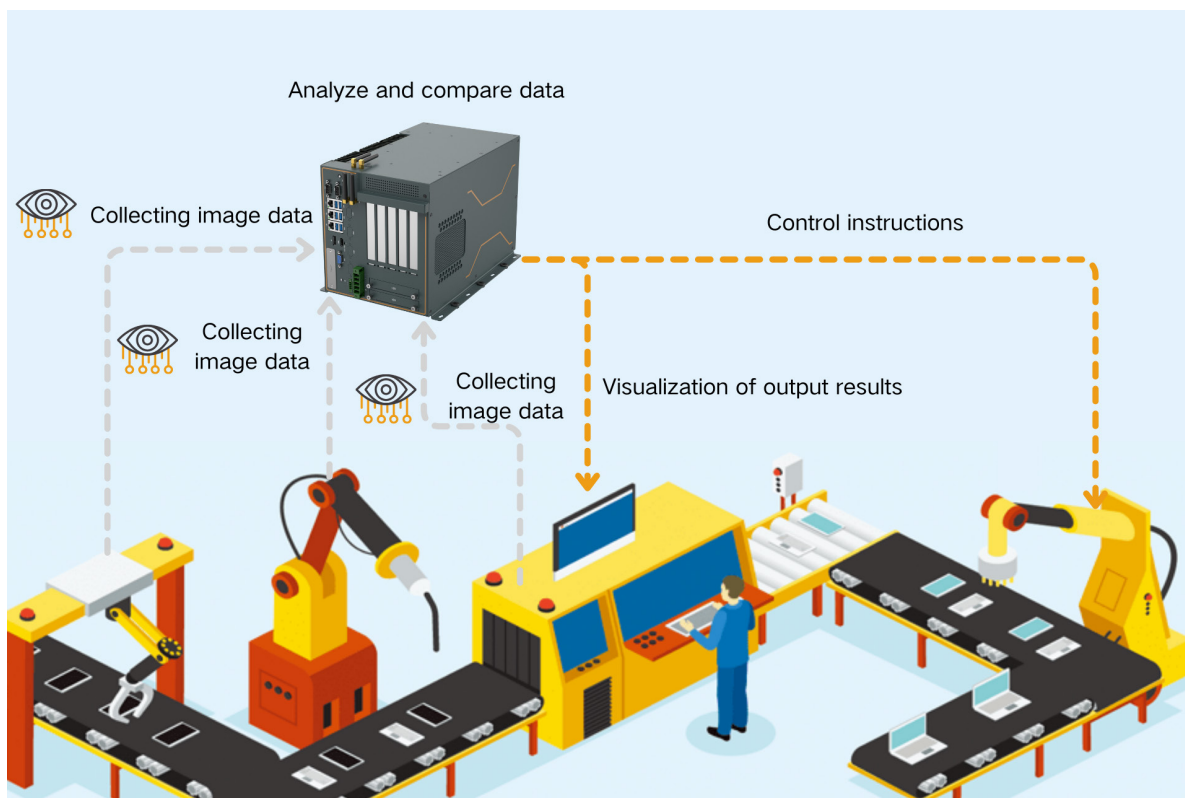
JHCTECH x intel®

Empowering Machine Vision in Brazil | Smarter, Faster, and More Reliable Production Lines

Written by JHC Tech Team

From Human Eyes to AI Vision

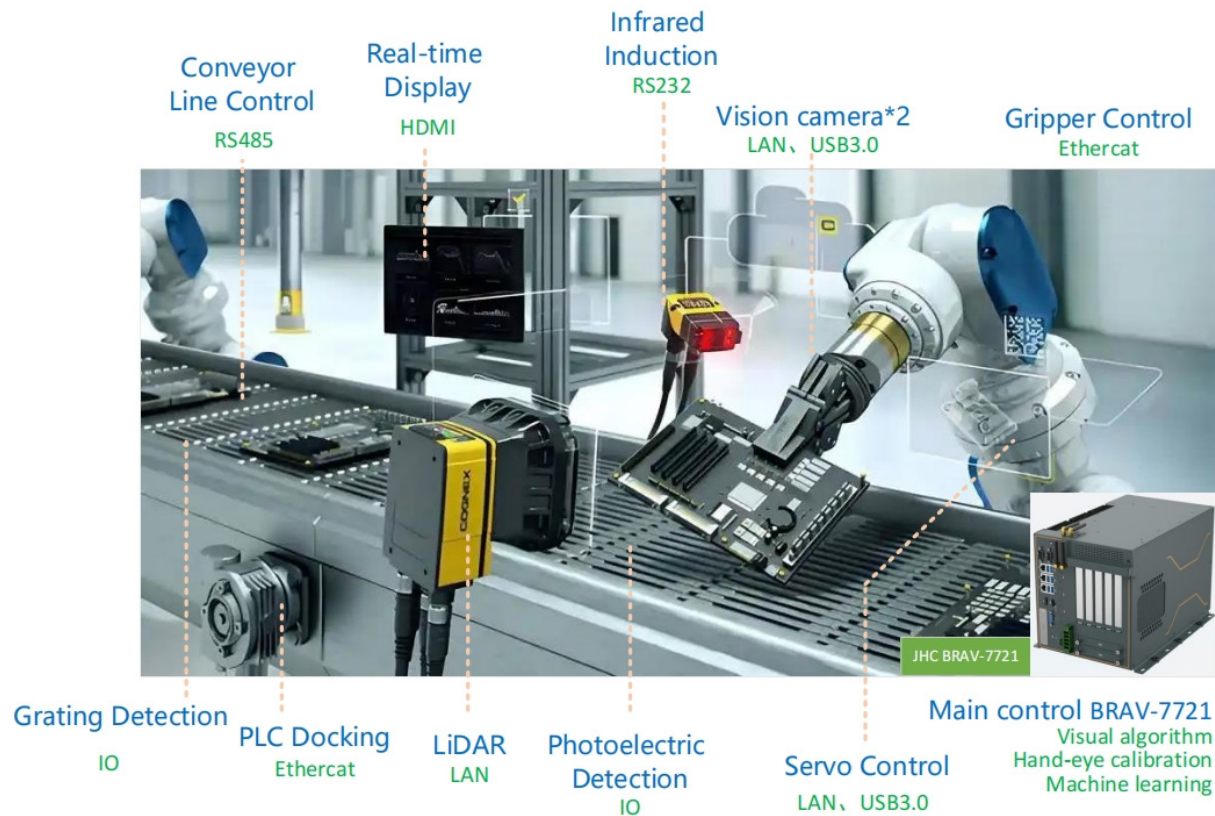
How do you ensure flawless quality in the fast-moving world of industrial production? In Brazil, one of the country's leading machine vision solution providers turned to JHCTECH for the answer. By integrating **edge AI industrial computing** into automated inspection, the customer transformed its production line—achieving real-time defect detection, precise measurement, and intelligent control.



Challenges in Machine Vision

For modern factories, machine vision systems must do more than just “see.” They need to **analyze, decide, and act**—all in real time. The Brazilian customer required an industrial computer that could:

- **Deliver high-performance computing** to handle complex algorithms and AI-driven image analysis.
- **Operate reliably in harsh environments** with heat, dust, and vibration.
- **Provide scalability and expansion** for future integration of additional cameras and sensors.
- **Support mainstream OS and software tools** (Windows/Linux) for seamless compatibility with machine vision applications.



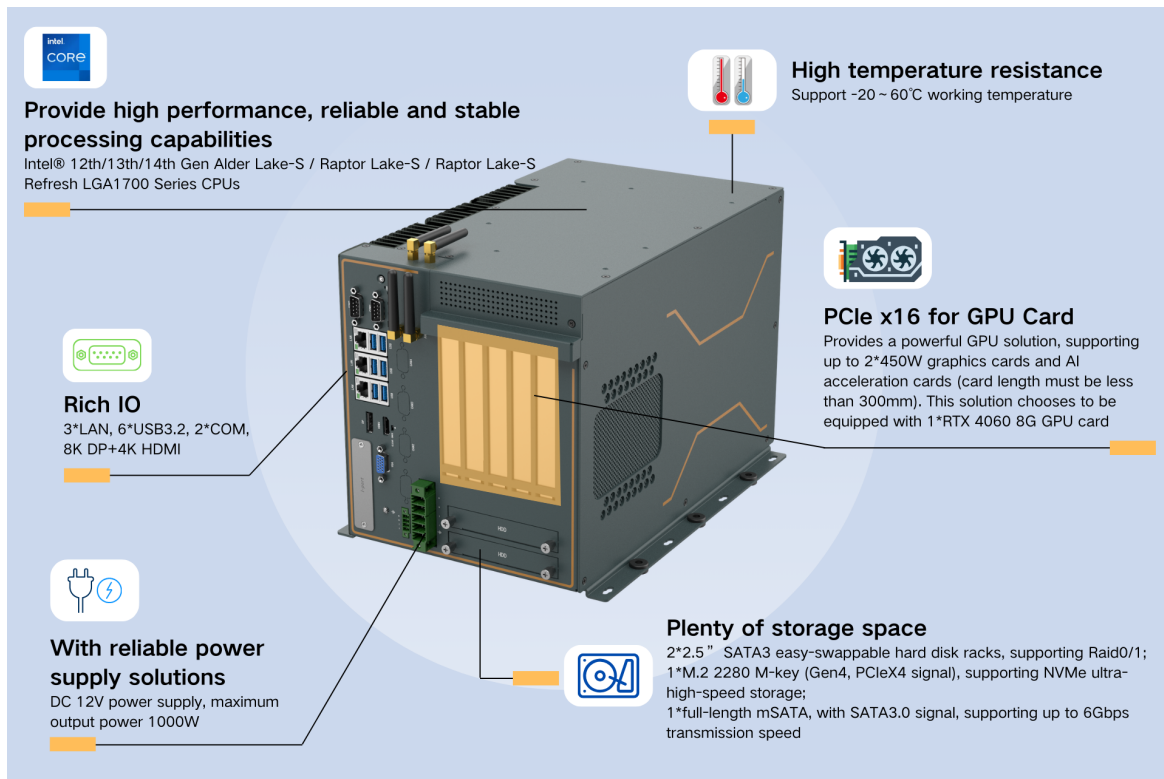
The JHCTECH Solution

The customer chose JHCTECH's BRAV-7721 Industrial AI Computer as the backbone of its automated vision inspection system.

- **AI-Powered Processing**
Equipped with 12th/13th/14th Gen Intel® Core™ processor family and support for multiple GPU cards, BRAV-7721 delivers the computing power needed for real-time AI image processing.
- **Flexible Expansion & Connectivity**
With 6× USB 3.2, 3× LAN, 2× COM ports, and 4× PCIe slots, the system connects seamlessly with multiple high-speed cameras and sensors—ensuring accurate, multi-angle inspection.

■ Industrial-Grade Reliability

Designed for demanding factory environments, BRAV-7721 supports up to 1000W power output, dual 450W GPUs, and features an MTBF of 50,000 hours. This ensures uninterrupted operation in high-temperature and vibration-prone settings



Results & Impact

By deploying BRAV-7721, the Brazilian manufacturer:

- Automated defect and quality inspection across its production line.
- Increased production efficiency with AI-driven real-time decision-making.
- Improved product reliability and consistency—enhancing competitiveness in the global market.

Conclusion

From Brazil's production floors to smart factories worldwide, JHCTECH continues to deliver **rugged, AI-ready industrial computing platforms** that power next-generation machine vision. With BRAV-7721, manufacturers can achieve **smarter, faster, and more reliable production lines**. Want to learn how JHCTECH can support your machine vision initiatives? Visit our [website](#) or contact our team to explore edge AI computing tailored to your project.

Partner Name

JHCTECH

Learn More

[BRAV-7721](#)
[AI Computing System](#)