ORAMA
SOLUTIONS

MAKING YOUR FACTORY FUTURE-READY WITH VISION INSPECTION.

About Us

Orama Solutions, born in 2021, is a Indian company deploying computer vision and AI based solutions in the manufacturing industry. We offer customised solutions for our clients which guarantees increased efficiency, improved quality, reduced customer complaints thereby driving business growth.

Why US

- Our solutions are **"made for you"** and not "one size fits all" and thus our solutions offer **unmatched performance** and customization possibilities.

- We choose the right hardware like **camera, lighting, lens, Industrial PC** and feeding conveyors to ensure optimum performance.

- Our solutions are built from bottom up using open source tools and software **keeping costs low** as well as offering deployment flexibility and scale.

- We listen to deeply understand your problem statement and create a **"proof of concept"** to showcase our capability before financial commitment

USP

- Affordable
- Customised Solution
- Integration ERP/ Software
- Fast, Easy to train & Deploy
- Very low False NG

Product Snapshot

- Absence/ Presence
- Assembly verification
- OCR/OCV Applications
- Defect Detection/ Surface Inspection
- Product Classification & Counting

Successful POC's

- Two wheeler engine assembly verification of more than 35 components using a single camera on assembly line for a multinational two wheeler manufacturer.

- Shampoo Bottle batch code OCR and verification for a fortune 500 company at 250 BPM.

- Tyre OCR for a very large manufacturer of tyre in India.

- Engine identification No (EIN) and Vehicle Identification Number (VIN) OCR using handheld camera for a very large 2 wheeler manufacturer.

- Defect detection for casting marks, dots, scratches, dents, incomplete characters etc for 2 wheeler engine for a very large two wheeler engine manufacturer.

- Barcode and QR code reading in low contrast areas like painted surface, broken codes, low engraving codes etc.

- Catalytic convertor blockage inspection for a multinational manufacturer

- Part classification to avoid part mix-up problem

- OCR on painted and unpainted metal parts.

- Defect Detection on small parts like scratch, dents with very high accuracy .

- Wireless Digitisation of electricity meter over LoRa modules with more than 1.2 KM range on modbus/ UART/ RS232 communication for a very large 2 wheeler manufacturer.

Industry 4.0 with LoRa

LoRa is a wireless communication protocol extensively used for shop floor digitization and cloud integration scenarios meeting industry 4.0 needs.

- **Wirelessly connect machine PLC/ energy meters/ Flow Meters to cloud.**

- **Supports Modbus/ UART/ HART/ RS 232/ CANBUS/ Ethernet protocols.**

- **Long range of 1.5 KM is achievable.**

- **No Packet Loss/ Garbage Data / Noise**

- **Low power consumption**

- **Different make PLC can be integrated on a single server offering scalability.**

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