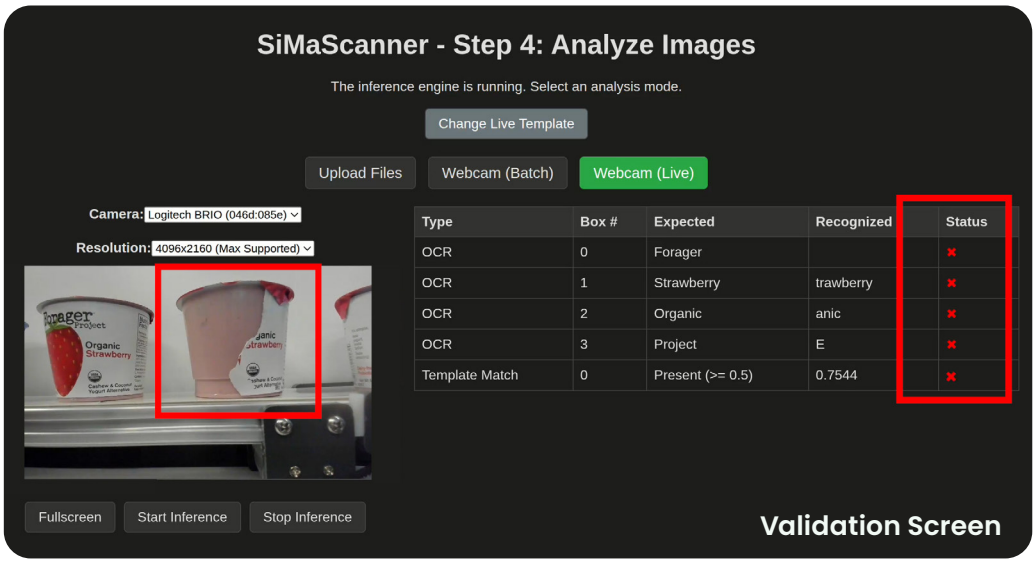
Product and Package Labeling

SiMa Value Proposition

- All-in-one labeling solution.
- Multi-language and font recongnition.
- Freedom of camera and optics choice.
- Easily add new labels or SKUs.
- Scan multiple labels simultaneously to maximize throughput.

Example Template



Quickly define package label template

Check labels against template

Address packaging issues immediately

Label accuracy, compliance, and cost efficiency—all on one SoC

SiMa's labeling solution combines OCR, barcode decoding, and packaging verification in one on-device system that eliminates costly re-tuning and proprietary hardware. It delivers the flexibility manufacturers need to keep pace with product variation and regulatory demands.

- Unified OCR, barcode, and label-quality inspection in one physical AI system.
- Instant, private results with no cloud dependency or bandwidth issues.
- Effortless onboarding of new SKUs, packaging, and print formats.
- Freedom to choose any camera, lens, or distance — no vendor lock-in.
- Future-ready platform for serialization, regulatory, and quality analytics.

Smarter Labeling, Higher Throughput

All on a single SiMa MLSoC or Modalix device

Technical Details

Configure inspection template in <15 minutes.

Detect and decode text, barcodes, and label regions using state-of-the-art ML models.

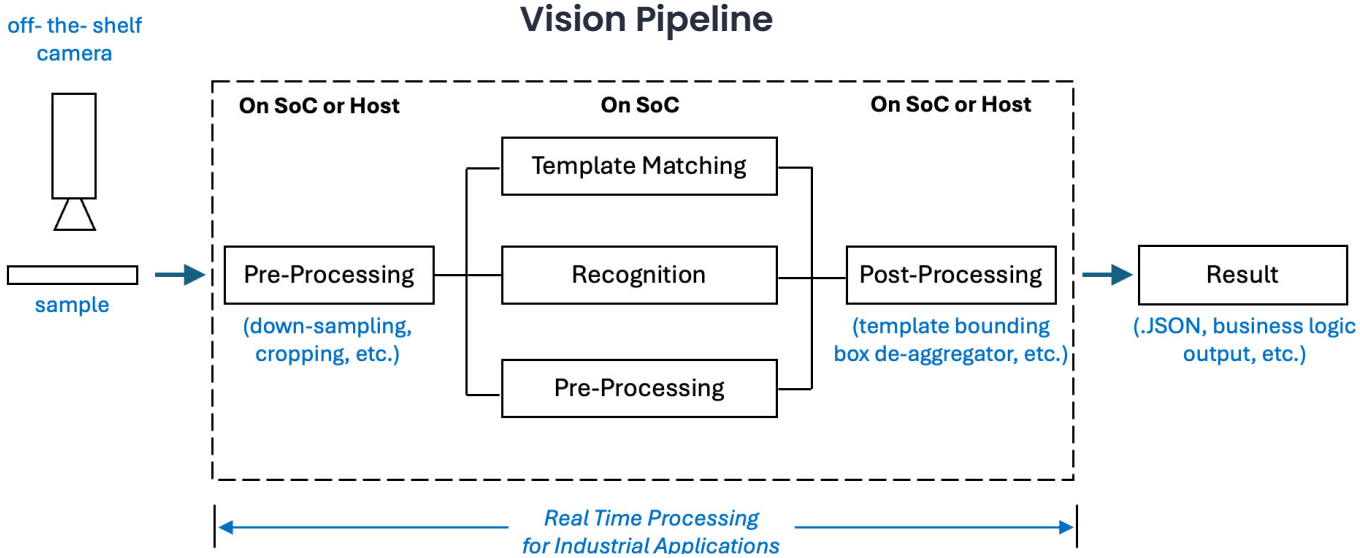
Quickly adapt to new products, SKUs, or packaging variations.

Works with off-the-shelf cameras.

Operates reliably under varied lighting and label distances.

Robust to rotation, scale, and moderate motion.

Vision Pipeline



Hardware

Our Silicon

Modalix

Our Boards

SoM

SoM Dev

PCIe HHHL

Software

Palette Edgematic™ Palette SDK™ LLiMa by SiMa

Hugging Face huggingface.co/simaai

Model Zoo sima.ai/model-browser/

About SiMa

SiMa.ai is a leader in Physical AI, delivering a purpose-built, software-centric platform that brings best-in-class performance, power efficiency, and ease of use to Physical AI applications. Focused on scaling Physical AI across robotics, automotive, industrial automation, aerospace & defense, smart vision, and healthcare, SiMa.ai is led by seasoned technologists and backed by top-tier investors. Headquartered in San Jose, California.
Learn more at www.sima.ai.