

# Optical Character and Barcode Recognition

## **SiMa Value Proposition**

- All-in-One Solution
- Multi-Language Capability
- Flexible for Product Variations
- Freedom of Camera Choice



Amount per serving Calories	230
	Daily Value *
Total Fat 8g	10%
Saturated Fat 1g	5%
Trans Fat 0g	
Cholesterol 0mg	0%
Sodium 160mg	7%
Carbohydrate 37g	13%
Dietary Fiber 4g	14%
Total Sugars 12g	20%
Vitamin D 2mcg	10%
Calcium 260mg	20%
Iron 8mg	45%



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## SiMa's OCR solution transforms label inspection economics

Traditional machine vision costs \$15K-\$20K once cameras, lenses, lighting, and integration are added — plus ongoing re-tuning. SiMa delivers equal or better performance at less than a third of the cost, using commodity cameras instead of proprietary hardware.

- One platform for OCR + 1D/2D barcodes with 98%+ accuracy in 80+ languages.
- On-device inference for real-time results, no bandwidth costs, and built-in security.
- · Adaptability to new SKUs or categories in minutes without ML retraining or line stoppages.
- Flexible optics to accommodate varied distance and character size, avoiding lock-in.
- Scalable architecture ready for advanced analytics and future labeling requirements.

# Faster deployment, future-proof labeling compliance - all on a single MLSoC

#### **Technical Details**

Create scanning template in 15 minutes.

Inferences performed against template.

Recognizes characters and/or barcode utilizing state of the art ML models.

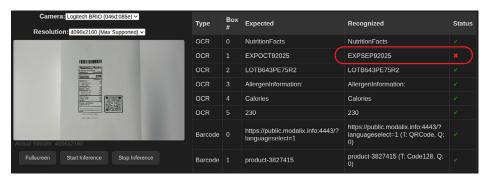
Allows rapid adaptation to new product codes.

Works with off-the-shelf-cameras.

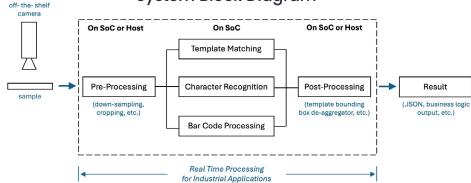
Does not mandate strict lighting or label distance.

Insensitive to rotation angle.

#### Demo UI



#### System Block Diagram









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.







