



# **ALETHRA SENSE™**

***Molecular Precision. Instant Confidence***

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## Molecular Precision. Instant Confidence

ALETHRA SENSE™ performs non-destructive spectral analysis using visible and near-infrared light to read a product's molecular signature. It verifies composition, freshness, purity, and match-to-reference in seconds — without touching or altering the product.

ALETHRA SENSE™ turns molecular identity into verified truth for food, agriculture, pharmaceuticals, and ingredient supply chains.

### CORE CAPABILITIES

- Non-destructive NIR spectral analysis
- Chemical/freshness assessment
- Molecular fingerprint comparison
- Instant anomaly detection with ALETHRA AI Clarity™

### HARDWARE

- Precision spectrometer
- Multi-band IR illumination
- Embedded NPU for fast edge inference
- Electric Red anodized chassis
- Optical inspection chamber or pass-through window

### SOFTWARE

- Molecular Signature Engine
- Composition consistency scoring
- ALETHRA CLOUD™ sync for verification history
- Real-time deviation alerts

### STEP-BY-STEP ACTIVITY CYCLE:

**Sample Placement** — Liquid, powder, or solid is placed in or under the inspection window.

**Spectral Emission** — Controlled light pulses pass through or reflect from the product.



ALETHRA SENSE™ performs optical & near-infrared spectral analysis to verify the chemical profile of products without contact or destruction. It authenticates composition, freshness, and molecular identity against ALETHRA CLOUD™ reference models.

**Signal Capture** — Sensors record the returned spectral signature.

**AI Comparison** — Signature is analyzed against the verified reference stored in CLOUD™ or NODE™.

**Verification Output** —

- **Match:** Composition authentic
- **Alert:** Deviation, contamination, or spoilage

**Trace Logging** — Every scan is logged and synced for audit and compliance.

### APPLICATIONS

- Ingredient validation
- Produce freshness scoring
- Pharmaceutical QC
- Regulatory inspection
- Purity verification

### SUMMARY

ALETHRA SENSE™ looks inside products with scientific precision — turning molecular identity into verified truth in seconds.

**“INTELLIGENT CLARITY TECHNOLOGY”**