



ALETHRA SCAN™

Verification Series (AS-V1 & AS-V2)

The Eye of Verified Truth

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ALETHRA SCAN™ is the optical verification engine of the ALETHRA ecosystem. Using RGB, NIR, and hyperspectral imaging, SCAN™ authenticates packaging, detects contamination, identifies pesticide residue, and verifies truth in milliseconds.

It transforms vision into a trusted verification instrument for agriculture, food processing, packaging lines, and sustainability auditing.

CORE CAPABILITIES

- Tri-sensor imaging (RGB + NIR + hyperspectral)
- Pesticide/residue/surface-film detection
- Packaging & label authentication (ALETHRACERTIFIED™)
- Real-time verification (<40 ms)
- Edge inference + <20 ms NODE™ integration

MODEL FAMILY

AS-V1 Compact Verification Edition

- For handheld or fixed-mount inline inspection

- 12 MP RGB/NIR, compact form factor
- IP65 anodized Electric Red housing
- 4-TOPS NPU, PoE+ / 12 V DC

AS-V2 Industrial Continuous Edition

- Tower/rack-mounted facility-level oversight

- RGB + NIR + VIS-SWIR hyperspectral
- 12-TOPS NPU, 1 TB SSD
- IP67 industrial chassis with dual GigE



• AS-V1 Compact Verification Edition - Handheld or fixed-mount optical verification unit for localized inspection, packaging authentication, and field deployment.

• AS-V2 Industrial Continuous Edition - Rack-mounted or production-line system for continuous scanning, environmental monitoring, and high-throughput regulatory verification.

FUNCTIONAL PERFORMANCE

Verification Speed: < 40 ms

Detection Range: 0.2–1.5 m

Field of View: 70° × 55°

Spectral Range:

400–1000 nm (extended SWIR available on AS-V2)

Accuracy:

±0.5% color deviation / ±0.2% reflectance variance

APPLICATIONS

- Agricultural verification
- Food and beverage processing
- Packaging authentication
- Sustainability auditing
- Supply-chain integrity

SUMMARY

ALETHRA SCAN™ turns industrial imaging into verified truth — spotting inconsistencies invisible to the human eye and securing every scan into the ALETHRA system.

“INTELLIGENT CLARITY TECHNOLOGY”