



3NET LABS

GoldenEye AI-Powered Mineral Prospecting with Optical + SAR Fusion

Unlock high-probability targets for precious metals and critical minerals — anywhere, any weather.

What is GoldenEye?

GoldenEye is an advanced remote sensing platform that combines high-resolution optical satellite imagery with commercial SAR (Synthetic Aperture Radar) data — including ICEYE's X-band SAR and PolSAR products — to identify surface signatures associated with mineral deposits.

Using decades of proprietary AI pattern-matching and detection software (some of which remains in active use by government agencies), GoldenEye compares known mineralized areas against new locations to flag high-probability zones. It can also deliver **new perspectives on old optical and SAR datasets**, revealing subtle patterns and relationships that were previously missed.



How It Works

- **Multi-Sensor Fusion:** Merges detailed visual/spectral data (optical) with microwave radar information from SAR.
- **PolSAR Decomposition:** Analyzes scattering mechanisms (surface, volume, double-bounce) to reveal surface roughness, moisture contrasts, and structural features invisible to optical sensors alone.
- **AI Pattern Recognition:** Our proven algorithms search for subtle terrain changes, alteration zones, and combined signatures that match known deposits of gold, silver, copper, lithium, and other targets.
- **All-Weather Capability:** SAR penetrates clouds, smoke, and operates day or night — delivering consistent results even in challenging environments.

Key Benefits

- Faster, more cost-effective target generation than traditional exploration.
- Reduced risk by prioritizing only the strongest multi-sensor matches.
- Works in vegetated, arid, or cloudy regions where optical data alone falls short.
- Leverages both archive (existing) SAR imagery and new tasking for timely insights.
- Scalable: From regional screening to high-resolution site evaluation.

GoldenEye: See More-Find more.

With over **decades of experience** developing mission-critical AI detection software, our team has refined pattern-matching techniques that deliver reliable results. GoldenEye builds directly on this foundation — now enhanced with rich SAR and PolSAR data — to give exploration teams a powerful new edge in finding the next generation of mineral deposits.

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