INTRODUCING

Remondo

Ultra-high resolution imaging for decisive advantage

What we do

Remondo is transforming optical imagery market with its patented Partial Aperture Imagery System (**PAIS**) optical payload technology.

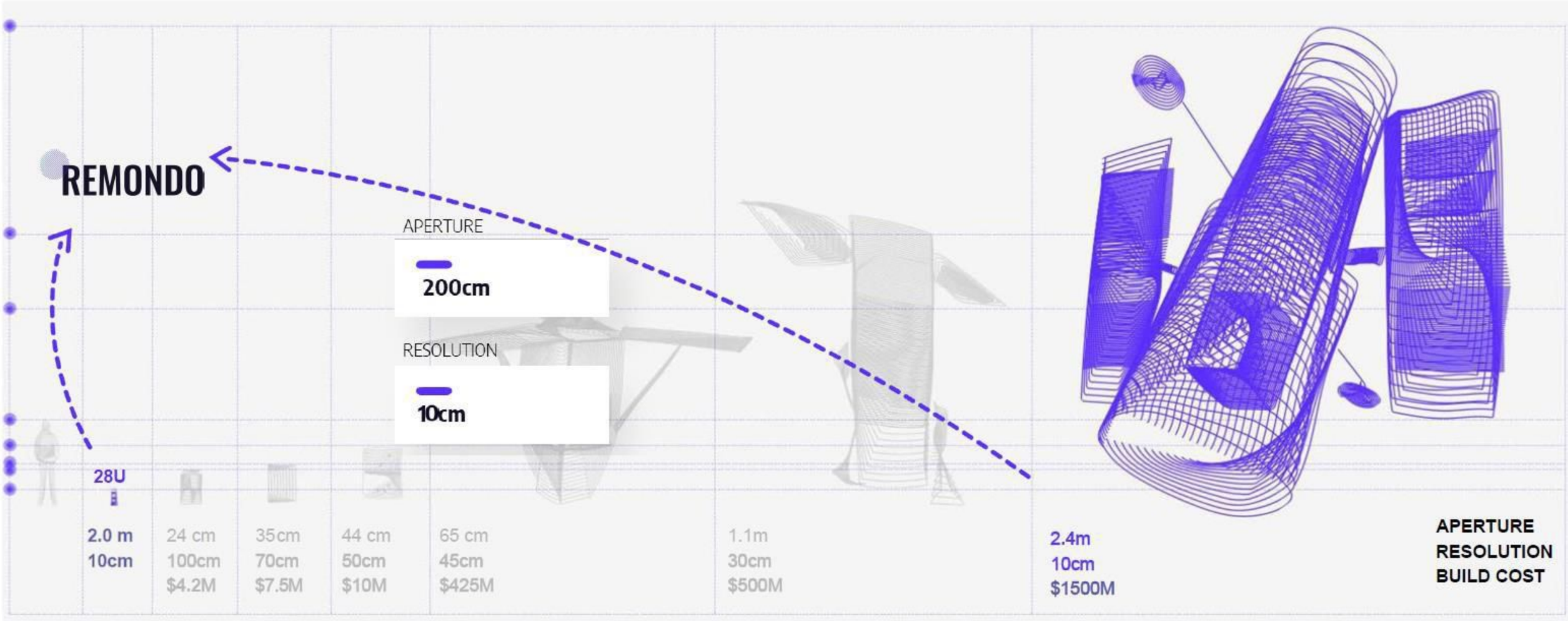
PAIS replaces bulky, technically limited, and expensive legacy optical payloads with a compact, cost-efficient, high-resolution optical payload.

The benefits are:

- Market leading ultra-resolution imagery (sub-30cm resolution)
- Very low cost for space-based ISR systems.

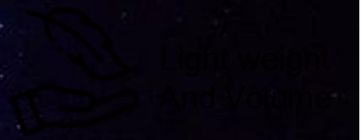
Remondo provides the “unlock” for sovereign ISR constellations

Highest Resolution - Lowest Cost



Problem we address

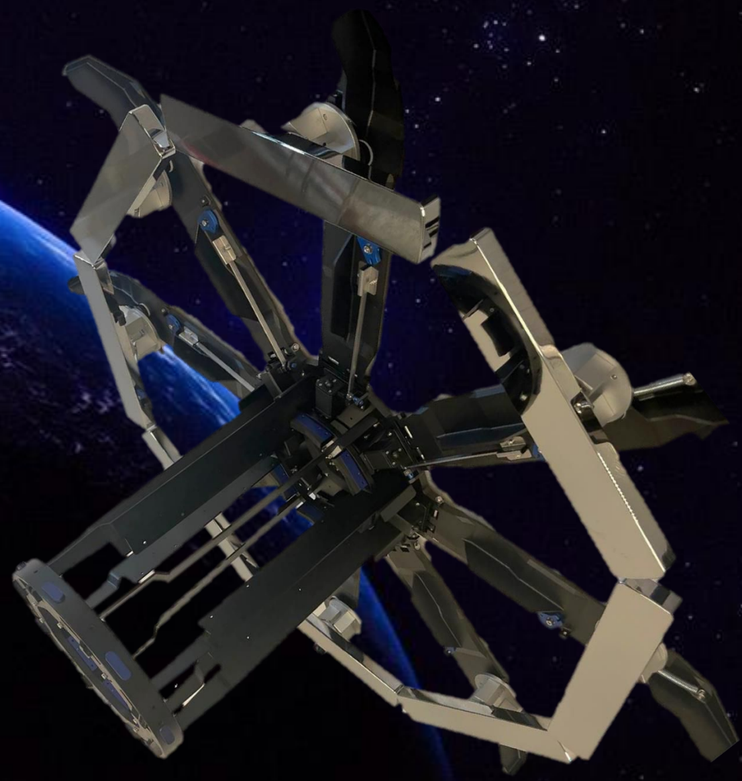
Customer Need:
Defense, Security & Intel customers are always looking for affordable, higher resolution, faster revisit satellite imagery.



Challenges:
Technical: Current smallsat designs have reached their physical design limits (~35cm GSD imagery) from LEO.

Business: Today's ISR constellations do not economically scale to meet 10-30 minute revisit rates necessary for defense missions.

Remondo's Payload Offering



Product: 1.0 meter aperture optical payload for smallsats that collects 16cm GSD imagery

Description: the optical payload is bus agnostic, making it suitable for integration onto commercial/sovereign smallsat buses and regular rideshare missions.

Revolutionary Technology

Remondo’s patented Partial Aperture Imaging System (PAIS) replaces bulky legacy optical payload with a compact, cost-efficient, high-resolution payload—unlocking scalable constellations to meet 20-30-minute revisit requirements.

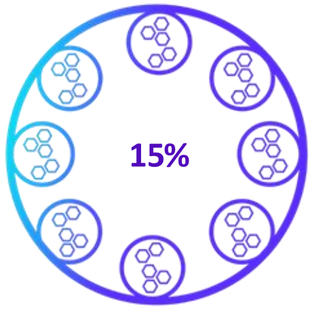
Conventional Payload: Full Aperture

Conventional: Launch & deploy of bulky, small aperture

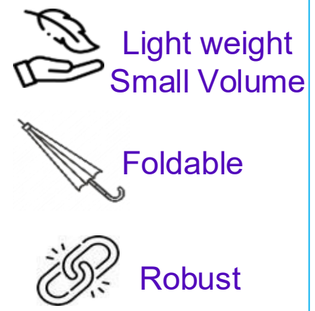
Conventional payloads rely on heavy, fixed 35cm apertures—driving up satellite cost while limiting resolution to 30–50cm.

These architectures **do not scale** economically or technically to meet MOD’s high-resolution, high-revisit requirements.

State of the Art Payload: Partial Apertures



PAIS: Compact for launch / very large aperture on orbit



PAIS transitions from a compact launch form to a 1m deployed aperture, delivering <30cm resolution imagery from LEO microsats.

PAIS provides a **scalable** architecture designed to meet MOD-level performance and budget targets.

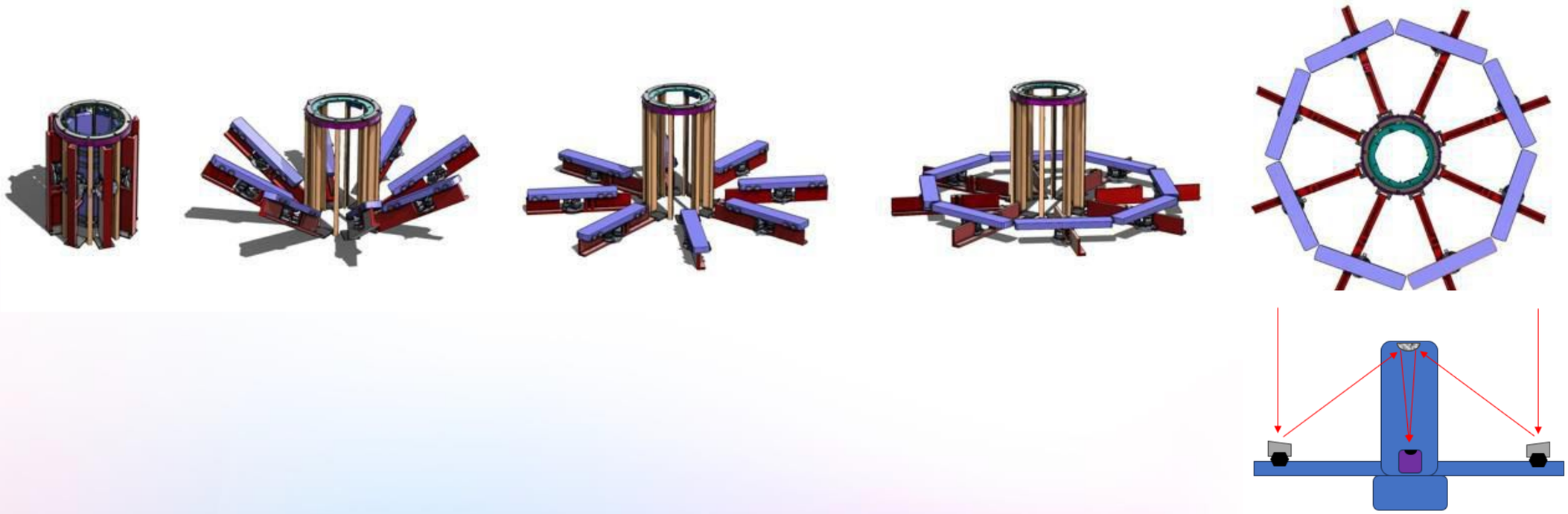
Remondo’s Strategic Advantages

2-3x	15%	<30 cm
Cost Reduction	**Aperture Fraction**	**Resolution (GSD)**
Orders of magnitude savings in deployment costs using Smallsats in LEO via rideshare launches	Total mirror area vs full aperture enables 3X-6X increase in aperture size	Providing the market’s highest resolution imagery

Customer Value: Deploy more satellites within budget for rapid revisit rates with ultra-high-resolution ISR capabilities meeting time-critical defense, intelligence, and security demands.

PAIS Payload Deployment

Stowed for Launch ➡ Deployed in Orbit



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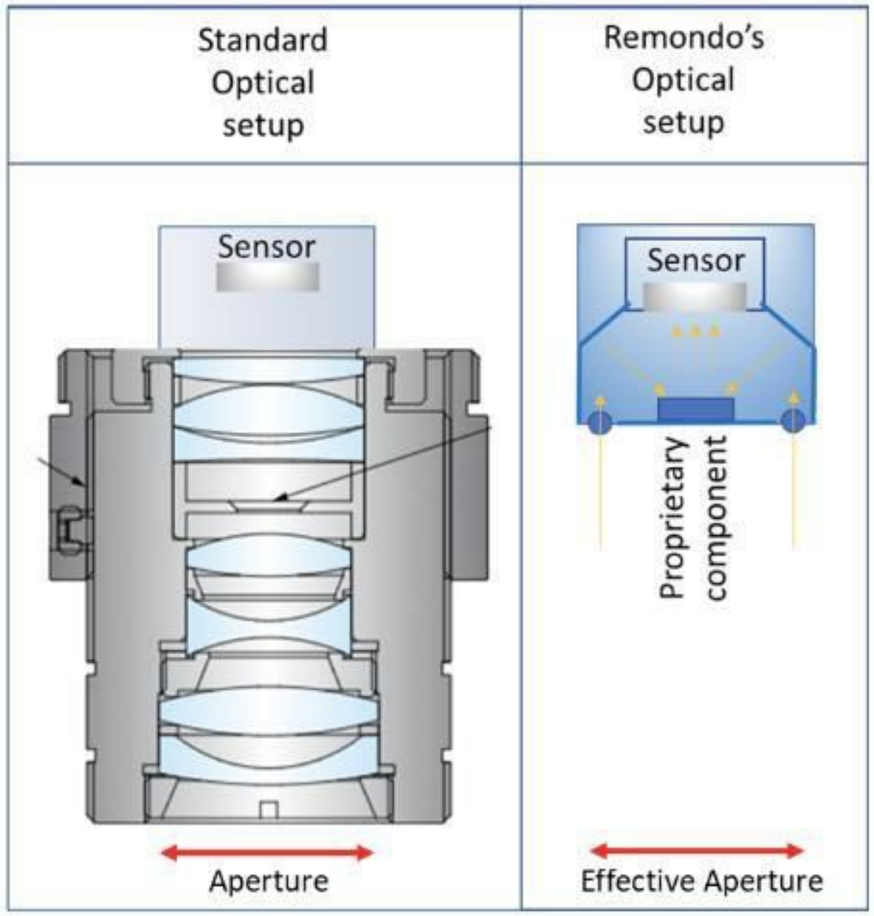
PAIS Technical Overview

PAIS Technical Differentiators

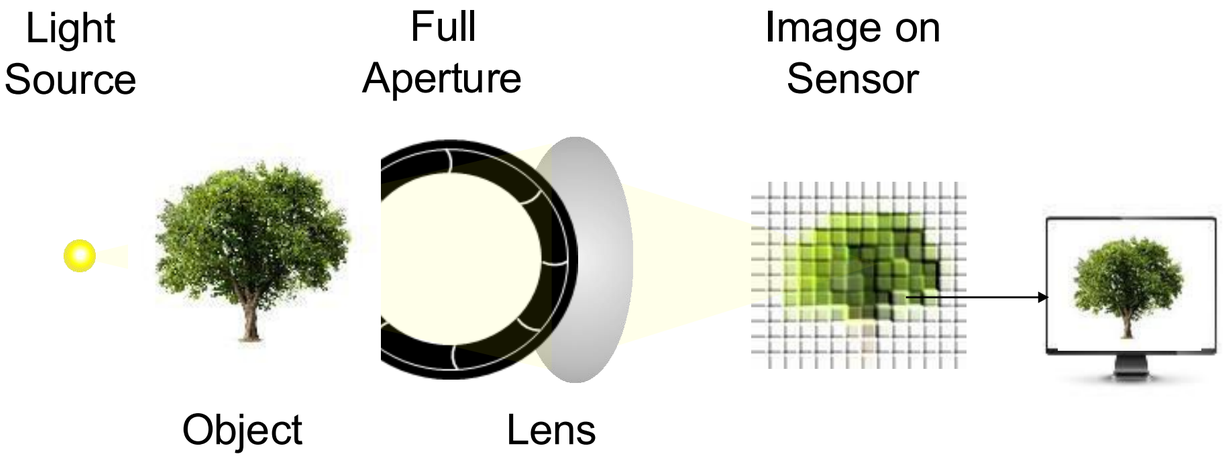


- Simpler optical architecture
- Lensless and indirect imaging
- Lighter and smaller payload
- Higher optical tolerances (mm vs nm)
- Easier manufacturability

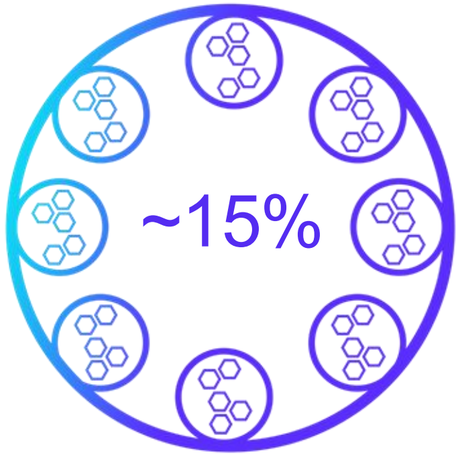
Underlying technology

CONVENTIONAL IMAGING SYSTEMS

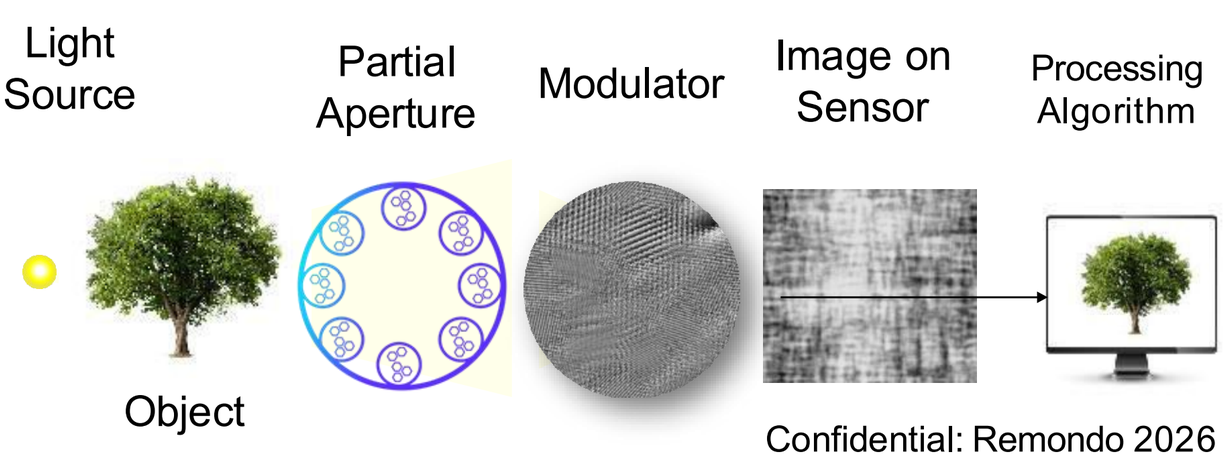
FULL APERTURE



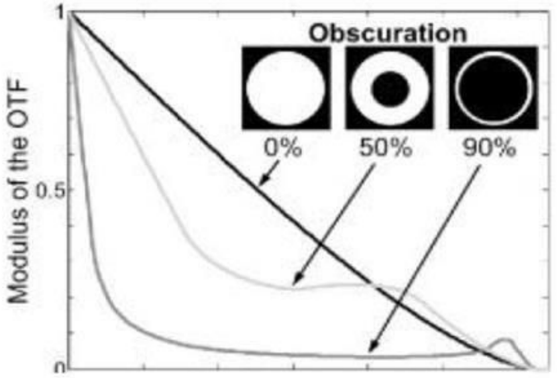
PAIS (PARTIAL APERTURE IMAGING SYSTEM)



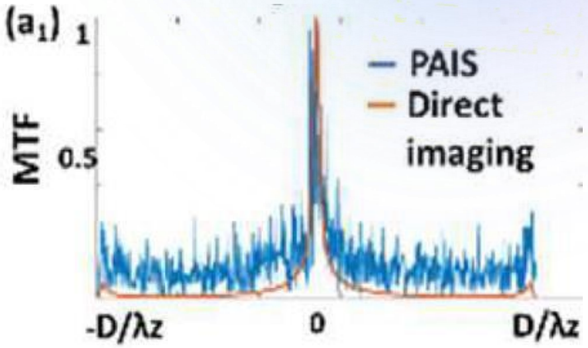
SUB APERTURES



Underlying science

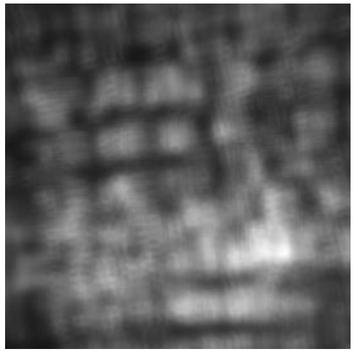


Modulation Transfer Function (MTF) as Function of Aperture

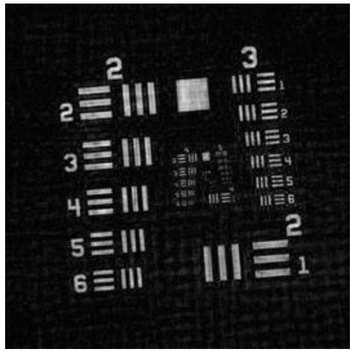


MTF Improvement

Raw Image from PAIS mirrors

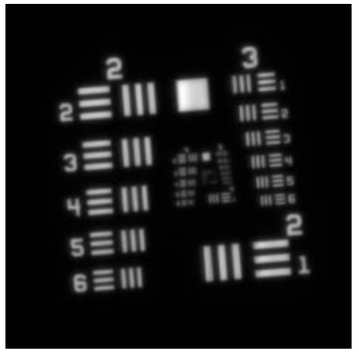


Modulated Image



PAIS Processed Image

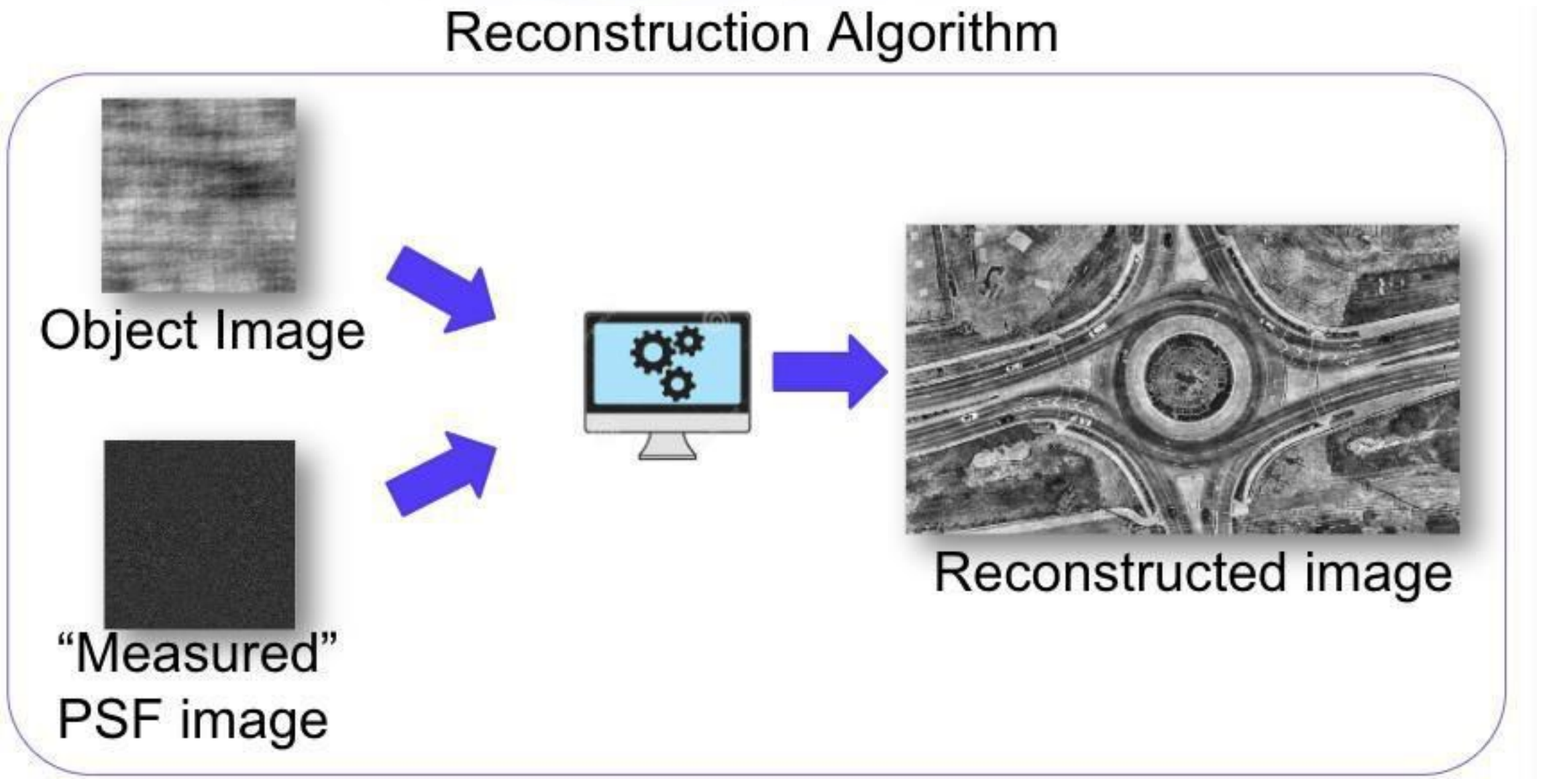
For comparison, this is a full aperture image →



Full Aperture Image

Image Processing

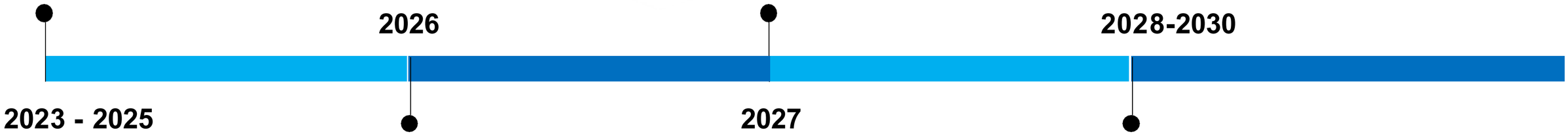
The final image is not formed optically at the sensor plane; it is computationally reconstructed from the captured holograms. This process is a critical part of the PAIS's functionality and relies on a powerful **nonlinear cross-correlation** algorithm.



Roadmap

Proven Optics & Image Processing
PAIS and image processing algorithms proven in Lab and on Ground.

Demonstration Satellite
Space qualification for ultra-high resolution optical payload.



Optical Payload Availability
Remondo is providing optical payloads to select partners to accelerate their ultra-high resolution optical imagery satellite and constellation programs.

Commercial Data-As-A-Service
Commercial operations of ultra-high resolution optical imagery services such as ad hoc tasking and monitoring services.

Backed by experience

Remondo is led by a world-class team that blends commercial success, government trust, and technical innovation.

Company overview:

- Founded 2022
- Early VC backing
- Series A closed June 2025

Leadership Team:

- Ido Priel – CEO, co-founder
- Oren Berger – CTO, co-founder
- Jill Smith – BOD exec chairman
- Jim Beckley – CRO
- Pat Antkowiak – Former CTO NGC

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Thank You