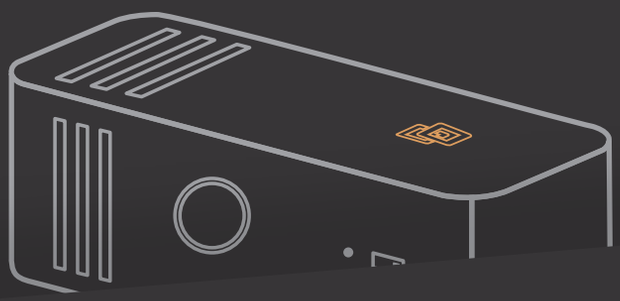
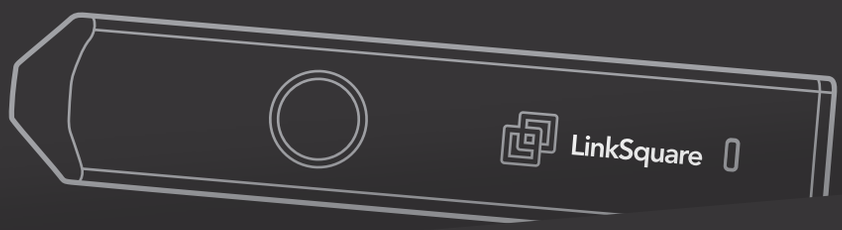
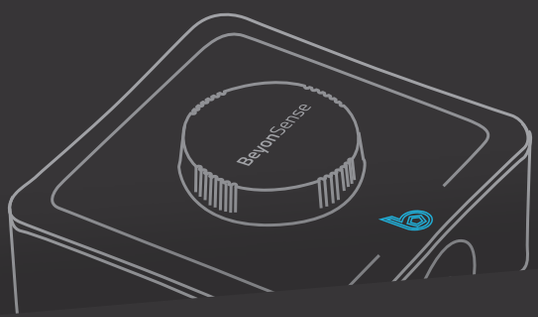
# STRATIO, INC.



LS SWIR mini




LinkSquare




BeyonSense

STNF

## Enabling Infrared AI™ to the Mass Market

stratiotechnology.com | contact@stratiotechnology.com

# STRATIO, INC.

STRATIO pioneered the world's first Germanium-based SWIR sensors, now enabling Infrared AI™.
Born in Silicon Valley by Stanford PhDs, we reveal what the human eye cannot see,
powering smarter, more sustainable industries worldwide.

STRATIO, INC. / STNF R&D Foundry
San Jose, CA, USA


STRATIO KOREA / ST Foundry
Pangyo, Republic of Korea


ST Labs
Daegu, Republic of Korea

## Infrared AI™ is a Fundamental Shift of Perception

For over a decade, STRATIO challenged the impossible and, thanks to our brilliant team and trusted partners, achieved what no one else had done—
the world's first commercialization of Germanium-based SWIR sensors.

Now, in the AI era, data is everything. With our proprietary Germanium-SWIR sensors, we capture infrared data no one else can—revealing what the human eye cannot see. This is the foundation of Infrared AI™, enabling not just vision, but true understanding.

From recycling and agriculture to defense and mobility, Infrared AI™ is shaping a smarter, more sustainable future.

Recycling & Circular Economy

Agriculture & Bio Safety

Automotive & Mobility

Defense & Security

Co Founder & CEO
*Jaehyung James Lee*

# LS SWIR mini

The Eye of Infrared AI™:

The world's first Germanium-based SWIR spectral sensor


Fabric

Plastic

AgTech

Soil Organic Carbon

| | | | |
|---|---|---|---|
| Material | Germanium | Max Power | 5.5 W |
| Wavelength Range | 1225 - 1625 nm | Battery Charging Method | USB-C |
| Number of Channels | 8 | Battery Type | Li-Ion battery |
| Bandwidth | 50 nm / channel | Operating Temperature | -5 °C to +50 °C |
| SNR | 1000 : 1 | Connectivity | Bluetooth (BLE), USB |

# LinkSquare

Bringing Infrared AI™ to Everyone:
A smart handheld spectrometer

Liquid Station

Agriculture

Manufacturing

Fine Jewelry

Distribution

Customs &
Law Enforcement

Pharmaceuticals

| | |
|---|---|
| LinkSquare 1 Wavelengths | 450-1000 nm |
| Weight & Connectivity | 57g / 2oz & Wi-Fi |
| Active / Idle Battery | < 1000 scans / < 72 hours |
| Charging | Micro-USB cable |

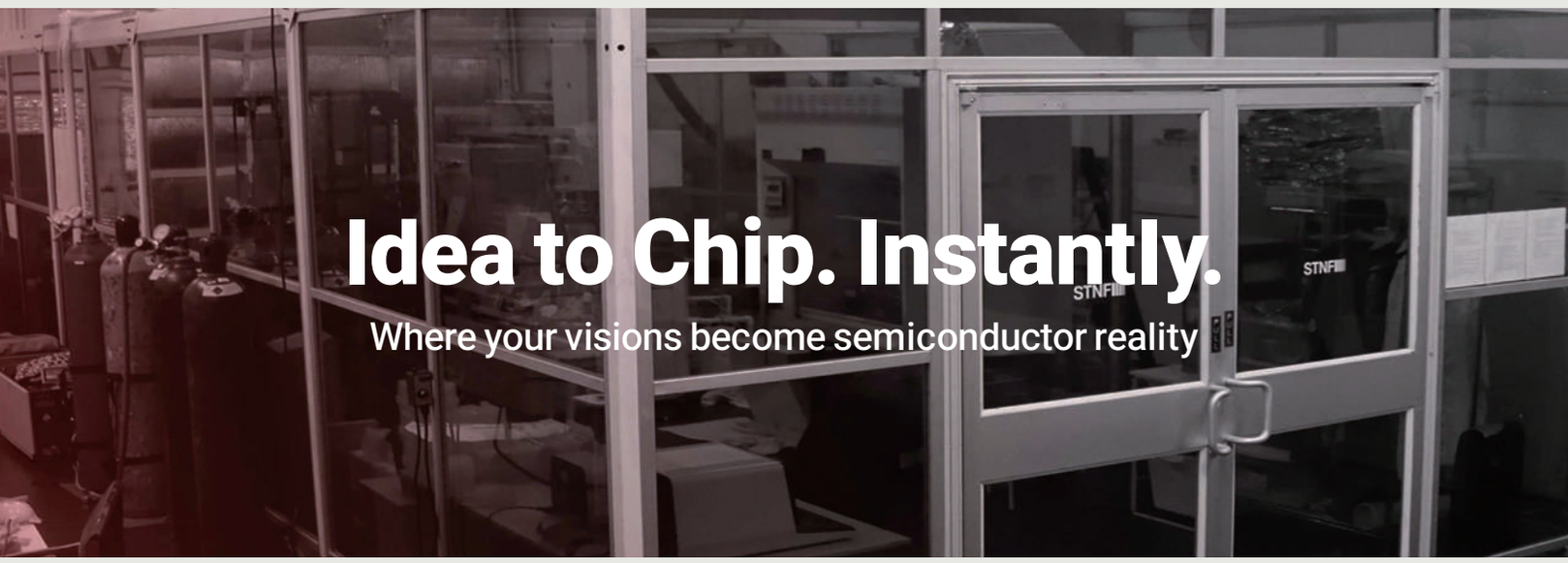
BeyonSense

## Expanding Infrared AI™ into Imaging:
## The world's first Germanium-based SWIR Image sensor


- Autonomous Driving
- Hyperspectral Imaging
- Smart Recycling
- SWIR Laser Detection
- Solar Cell Inspection
- Product Authentication
- Crop Inspection
- Drone Imaging

| | | | |
|---|---|---|---|
| Material | Germanium | Resolution | 128 x 128 |
| Response Range | 400 - 1600 nm | Operating Temperature | -5 °C to +45 °C |
| Power Consumption | 600 - 900 mW (Typ.) | Connectivity | Wi-Fi |

STNF Stratio Technology Nanofabrication Facility




# Idea to Chip. Instantly.

## Where your visions become semiconductor reality

STNF is a Lab-to-Fab foundry that supports startups disrupting the market, research institutions, and global corporations prototyping your next big thing, we provide a direct path from concept to a tangible product.

### I-line stepper
ASML PAS 5000/50
Critical Dimension > 500 nm

### PR Coater & Developer
TelMark V / PR3612

### Asher/Etcher
Matrix 105
PR removal, Descum

### Metal Sputter
Perkin-Elmer 4400
Ti, TiN, Al

### CMP
Strasbaugh 6EC
Si, SiO2

### Fume Hood
St Charles Fume Hood

### SRD
Semitool 260
Remove particles and loose debris

### Oven
Linkberg/BlueM
Minimize outer surface temp

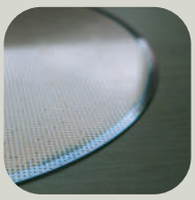
# Our Capabilities

## End-to-End Flow

Design → Prototyping → Fabrication
From lithography through etching, CMP, and packaging, STNF provides a complete fabrication pipeline — fully scalable up to 200 mm wafers.

## Rapid Turnaround

From design to wafer in as little as 1 month. This rapid turnaround empowers you to test, iterate, and reach the market faster than ever before.



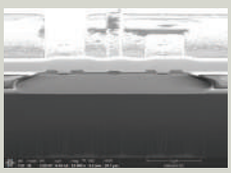
## 200 mm Expansion

We provide a clear, seamless path to scale with expanding capabilities for 200 mm wafer processing and strategic alliances with high-volume commercial foundries.

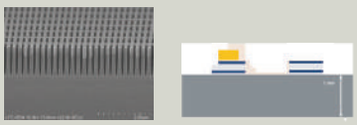
## Trusted Partnerships

Official consultant of Stanford Nanofabrication Facility (SNF) and service partner DoD ME Commons Northwest-AI-Hub

# Explore More Our Success



**Germanium-on-Silicon CMOS Sensor**



**200 mm SOI wafers with ArF and advanced dry etching**

**High-frequency RF sensor design**

**Infrared (SWIR) Sensors**

Commercialized the world's first Germanium-based SWIR sensors with a novel pixel structure for CMOS integration

**Bio & Gas Sensor**

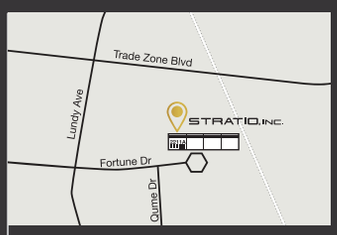
Powered cutting-edge biomedical projects and advanced monitoring for high-speed 3D printing

**RF Sensor**

Enabled a client to achieve mass production, leading to a 10-year supply contract

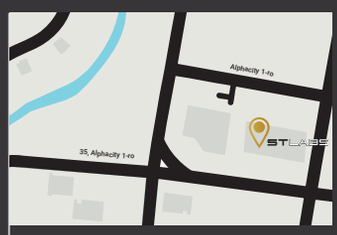
# STRATIO, INC.

Advancing Vision with Infrared AI™.




**STRATIO, INC.**
2211 Fortune Drive, Suite A
San Jose, CA 95131,
United States


**STRATIO KOREA**
(13449) B-911, 43 Changeop-ro,
Sujeong-gu, Seongnam-si, Gyeonggi-do,
Republic of Korea




**ST Labs**
(42250) 415ho, 160, Alphacity 1-ro,
Suseong-gu, Daegu,
Republic of Korea

stratiotechnology.com | contact@stratiotechnology.com