



Markets and applications



Current markets and applications:

- > Home & industrial safety and security
- Motion, Presence detection, Curtain sensor, proximity sensing
- > GMOS gas sensor for fruit freshness monitoring and food waste reduction



Future markets and applications:

- > Markets: home, industrial, Air quality, wellness Optical
- > (NDIR) Gas sensing
- > Chemical gas sensing (Ethanol, Acetone)
- > Small thermal imagers

- > IOT for Smart homes
- > IVMS (In-vehicle monitoring)
- > Automotive thermal imagers
- > Night vision thermal imagers



Funding rounds:

2012 Seed, 2M\$:

Shmuel Melman, private European investors (security markets leaders), Pre Money Valuation 8M\$ 2018-2019 Round A1-A2, 3.4M\$:

Flow Jordan investment firm, Technion investment fund, PMV 13.5M\$, 23.5M\$ **2021 (current) Round B:**

5M\$, PMV - TBD.



Technology advantages:



Sensitivity

Detection level at very low concentration



Selectivity

Can detect separate gases



Reliability

Hight immunity to false alarms



Lower cost

Standard FABs & mature CMOS technology



Calibration time

Short, no neet to re-calibrate



Low power consumption

Lower power operation at subthreshold (battery time)



Compatibility

Compatible with mobile applications, IoT, automotive industry, etc.

COMPANY PROGRESS







2016

More than 16 patents and extensive know-how

2017

POC of digital TMOS

POC of GMOS - Achieved! License agreement with Murata – Signed!







2021

Commercial sales of Digital TMOS by STM - 2021 (Royalties and commercial proof of concept). POC of 3 applications based on digital TMOS (NDIR, Proximity sensor, curtain sensor)

2020

Alpha users for TMOS and production readyness

2019

License agreement and development agreement with STM -Signed!





2021

Demo and field tests of GMOS (Ethylene, Ethanol).



2022

POC of remote temperature sensor based on TMOS

GMOS (Ethylene) first sales

GMOS platform (software) - ready. Completing more sensing systems based on TMOS



POC for thermal cameras.

and GMOS (NDIR for cooking gas, CO2 and more). POC and MVP for Radon and X-Ray sensor

TEAM



Prof. Emeritus Yael Nemirovsky Founder, Board member &

Chief Scientist



Yossi Levi CEO



Shmuel Melman Founder, Chairman of the Board

ADVISORY BOARD



Prof. Dan Shechtman

Advisory board member chemistry Nobel prize winner, discovered the icosahedral phase, which opened the new field of quasiperiodic crystals.



Prof. Amikam Nemirovsky

System and Noise Analysis specalist, Ex Senior Scientist in Rafael (Israel Defense Industry),

PARTNERS





Heraeus







