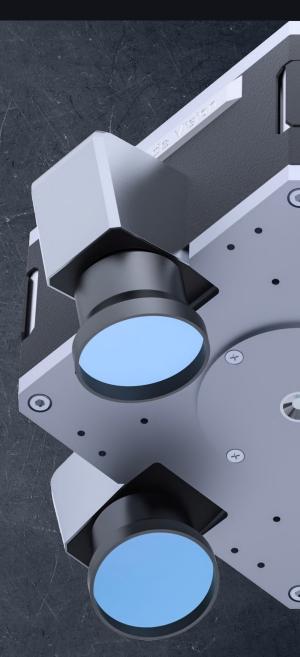


Saccade-MD

World's First Multi-directional 3d Scanning Camera

- Focus on fine features with ultra-high resolution
- Variable scanning density and direction
- Locally optimized scanning
- Fast and inline 3D sensor with CMM precision
- Effortless setup by a non-expert









Why Saccade

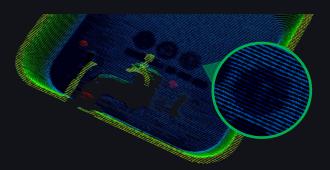
Variable point density

Industrial applications require accurate measurement / localization of 3D features – 3D edges, holes, trenches, pins or walls.

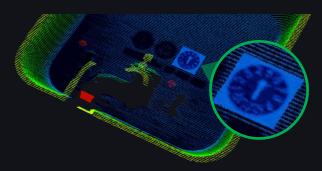
Typical 3D sensors (laser profilometers & structured light cameras) offer uniform resolution in the field of view. This resolution either insufficient for edge localization or excessive for smooth surfaces.

Saccade Vision sensors allow optimal feature-based resolution and point density.

Typical 3D sensor with uniform resolution



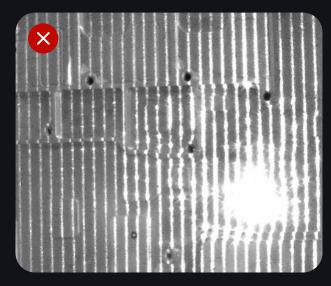
Saccade Vision sensor: high resolution only where needed



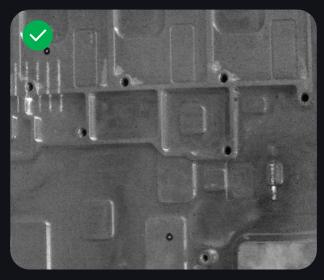
Focus only on important locations

Typically, in 3D sensors (both profilometers and snapshot sensors) the whole field-of-view is illuminated uniformly. In many cases this results in point cloud dropouts and requires sophisticated HDR algorithms.

Saccade vision allows illumination optimization separately for every small feature.



Typical 3D sensor with structured light on highly specular surface



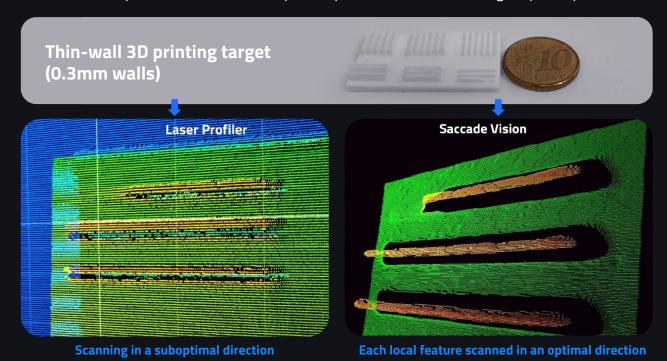
Saccade Vision: Illumination optimized per small feature

Why Saccade

Scanning is optimized locally per feature

In profilometers and structured light cameras, the orientation of structured light / scanning direction is fixed. In many cases this results in under-sampling of small features.

Saccade vision optimizes the illumination pattern per small feature, resulting in optimal performance.



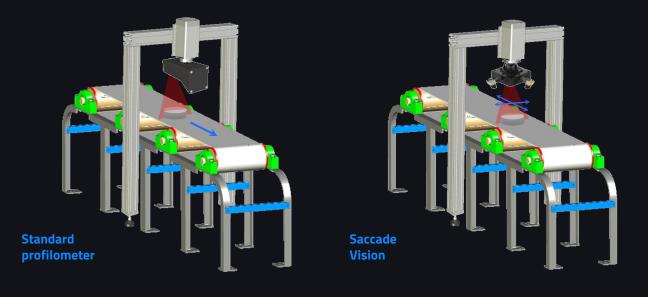
Precise measurement of stationary parts

High precision and accuracy

Saccade –MD provides profilometer precision on stationary object, eliminating measurement error due to vibration and imprecise motion.

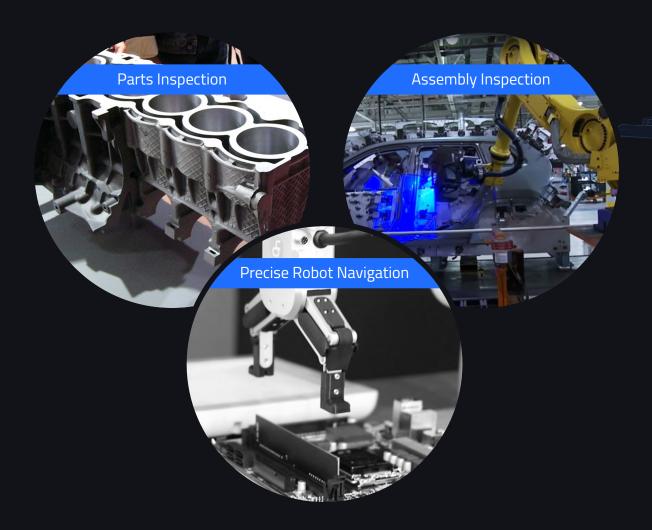
Simple integration

Saccade-MD sensor can scan static sample – no need to synchronize with part motion



What machine vision integrators say:

- We can use **single** Saccade sensor focusing on the most meaningful part of the object
- We can program a new set of inspections with **few clicks**, which has a great impact on risks when dealing with new projects
- Saccade system greatly simplifies the integration task and reduces overall time-to-solution
- [for this project] existing solutions will not deliver the required results

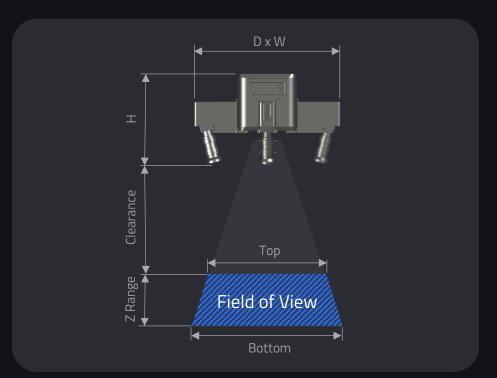


Fast Inline 3D Inspection with CMM performance

| Main Specifications | Saccade-MD150 | Saccade-MD300 |
|--|---|-----------------|
| 3D data points per frame | Local resolution equivalent to 100-million-point density | |
| Angular Scan Resolution | 0.003° | |
| Field Of View (Top – Bottom) (mm) | 82 - 150 | 164 - 300 |
| Z Range (mm) | 50 | 100 |
| Dimensions (W x D x H) (mm) | 210 x 210 x 212 | 380 x 380 x 212 |
| Clearance (mm) | 250 | 500 |
| Local XY Resolution (mm)* | 0.01 – 0.018 | 0.02 – 0.03 |
| Z Resolution (mm)** | 0.022 | 0.04 |
| Z Repeatability (mm)** | 0.0008 | |
| Robustness (ambient light, contrast, color) | Dark Materials, Shiny Materials | |
| Part positioning | Position-agnostic performance | |
| Speed | Up to 500 local measurements per second | |

* 5mm wall

** 5x5 mm measurement pad





Saccade-MD

CONTACT:

- info@saccadevision.com
- +972-50-2088966
- 2 Oppenhaimer st., 6th Floor,
 Scientific Park, Rehovot, 7670102, Israel

Focus On What Really Matters