



MEMS mirror introduction



YITOA MICRO TECHNOLOGY CORPORATION

Sep-10-2025

Overview

COMPANY PROFILE

Capital	1.0 Billion Yen
Sales	9.3 Billion Yen (CY24)
Business content	Development, Engineering, Manufacturing and sales of semiconductors and MEMS.
Employee	246 (2025.4.1)
President	Keisuke Motosugi
Location	465, Osato-cho, Kofu-shi, Yamanashi

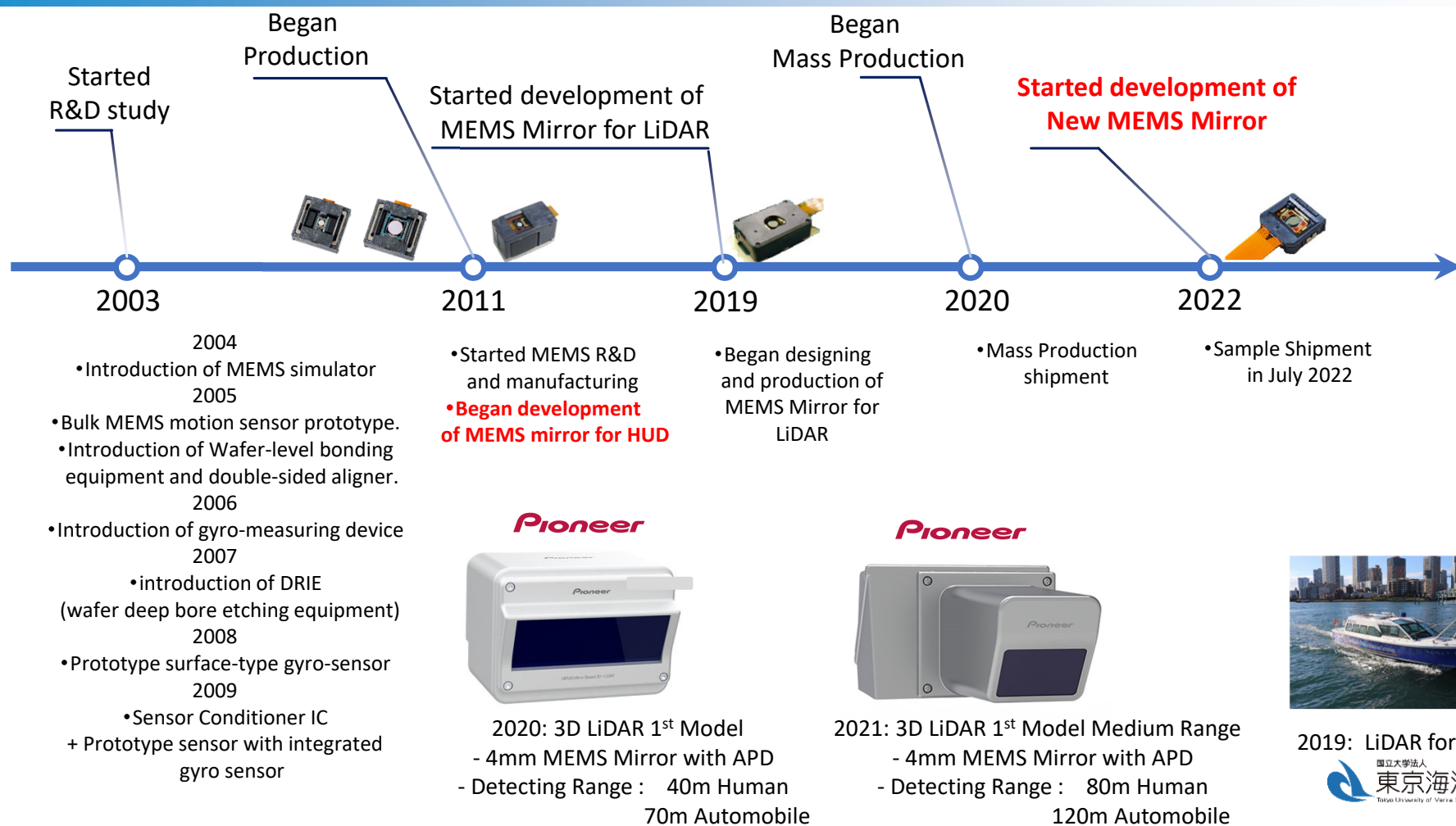


YITOA MICRO TECHNOLOGY CORPORATION




HISTORY

- 1977.10** Pioneer corporation established its semiconductor research Lab.
- 1981.04** Started development of semiconductor for its own product.
- 1985.10** Pioneer corporation transferred of semiconductor operations to "Pioneer video corporation", and started sales products to outside of pioneer group.
(Mainly audio and video IC products)
- 1994.01** Obtained ISO 9001 certification.
- 1998.07** Obtained ISO 14001 certification.
- 2001.01** Started operation of 6 inch wafer process line (Bipolar).
- 2003.04** Established "Pioneer Micro Technology corporation".
- 2020.10** Changed the company name to "YITOA Micro Technology Corporation"

Development History



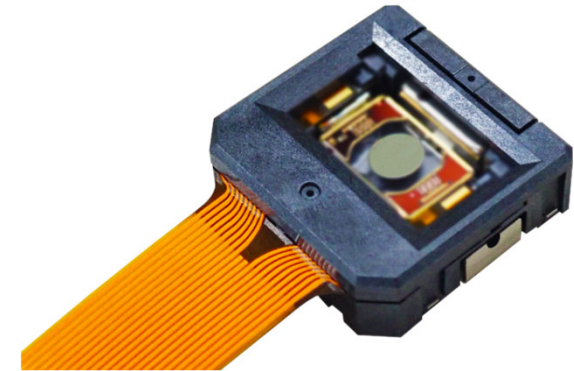
MEMS mirror lineup

Item	CG0006AR/BR	CG0007AR	CG0008AR	CG0009AR
Product Photo				(TBU)
mirror size	Φ3.6*4.0mm	Φ1.0*1.1mm	Φ8.0*8.0mm	Φ1.6*1.6mm
PKG size	19.5×19.0×7.0 mm ³	12.2×12.3×6.28 mm ³	24.8×23.14×7.58 mm ³	12.9×13.47×6.28 mm ³
1-axis [Operation mode]	Linear	Linear	Linear	Linear
1-axis [Drive frequency]	1~100Hz(20Hz)	1~100Hz(60Hz)	1~70Hz(10Hz)	1~70Hz(10Hz)
Optical FOV	±15°	±13°	±12.5°	±15°
2-axis [Operation mode]	Resonant	Resonant	Resonant	Resonant
2-axis [Resonance frequency]	1100Hz	27kHz	810Hz	20kHz
Optical FOV	±30°	±22°	±15°	±20°
Operating voltage	3V	3V	3V	3V
Power consumption	62mW	225mW	110mW	230mW
Target wavelength	905nm-1550nm	400nm-700nm	905nm-1550nm	400nm-700nm
Reflectivity	94.6%	90.0%	98.0%	90.0%
Status	2025/7 MP予定	Samples provided	Samples provided	Samples provided
Purpose	3D-LiDAR (Middle)	HUD,Pico-projector	3D-LiDAR (Long)	HUD,Pico-projector

■ Feature

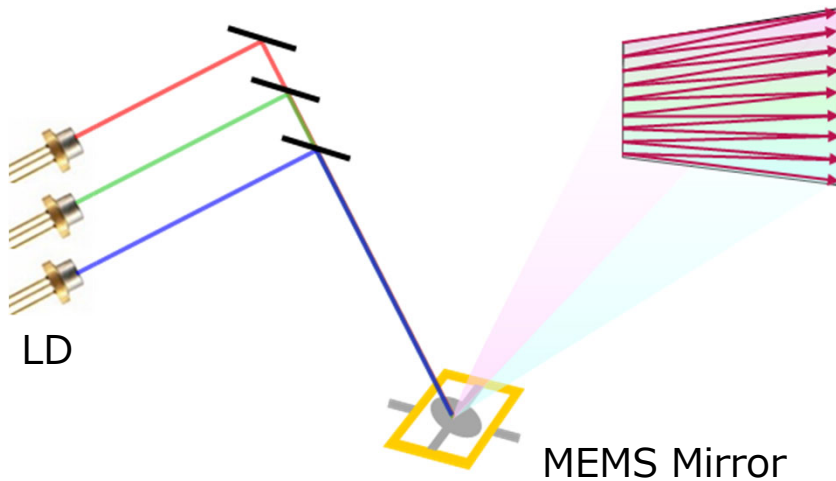
- Electromagnetic type
- Compact 2-axis integrated
- Horizontal : Resonance drive
Vertical : Non-resonant drive (raster scan)
- Wide Field of View
- **Built-in angle sensor (piezo sensor)**
- **Low crosstalk (between 2 axis drive signals)**
- Low drive voltage, low power consumption
- Flat mirror surface
- **Automotive reliability**
- **Long life and high reliability**
- ES2 Samples of the final shape will be available in late 2024 or early 2025.

4mmφ (CG0006AR)

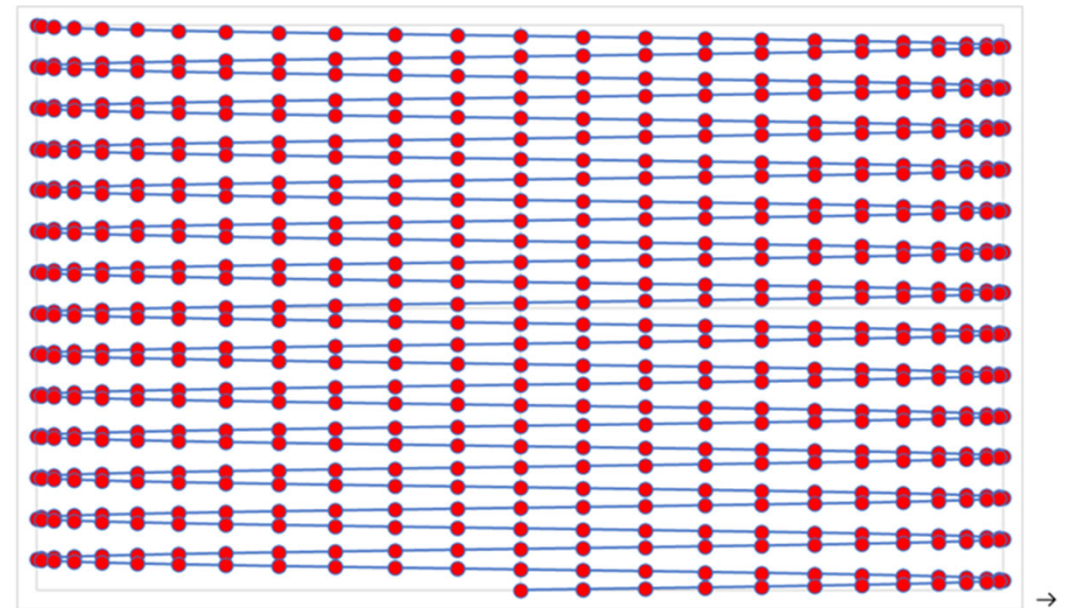


Raster scan image

Our MEMS mirrors are compact, long-lasting, and have low crosstalk, making them ideal for HUD.



※Raster scan image



<Pico-Projector>

The use of laser MEMS technology enables the realization of ultra-compact, focus-free projectors.



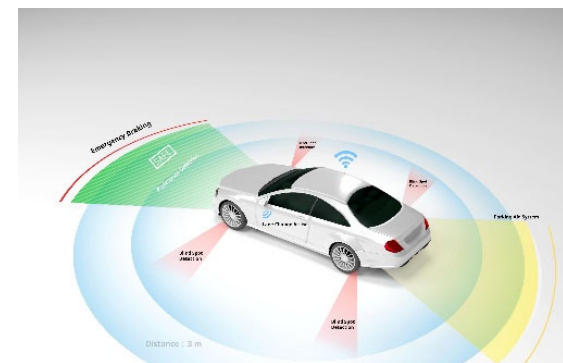
<Head Up Display>

Projects navigation information, speed, and other image information onto the front window of the car.



<3D LiDAR>

LiDAR is a ranging sensor that uses laser light. It measures the distance to objects around a vehicle as 3D data.



Product roadmap

