Version No.: V-240406

2024
PRODUCT
CATALOGUE

3D DEPTH CAMERA BASED on ToF TECHNOLOGY

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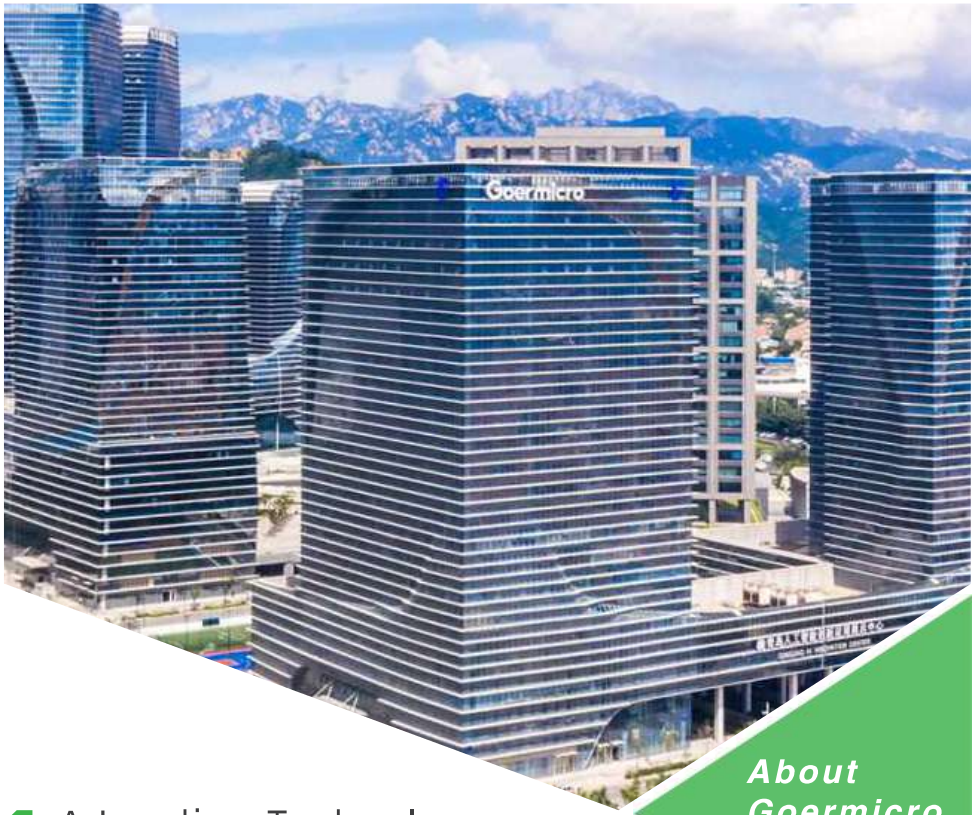


About Goermicro

A Leading Technology Company in MEMS

Goermicro is a semiconductor company that focuses on the R&D, production and sales of MEMS devices and microsystem modules. Our business covers key links in the industry chains such as chip design, product development, packaging testing and system applications. Through vertical integration, we provide accounts with "chips + devices + modules + systems" one-stop solutions.

400+
Annual operating income exceeds 400 million USD

8%
R&D investment accounts for more than 8% of revenue

1800+
The number of granted patents is more than 1800

Team Development

MILESTONES

2016
At a well-known VR company worldwide, we began evaluating 3D sensors, eventually selected the ToF sensor and began research and developing

2017
Released ToF modules DCAM100 and DCAM710, announced SDK and graphical tools

2019
Supported over 400 developers, conducted evaluations and development, and completed custom development for over 10 projects

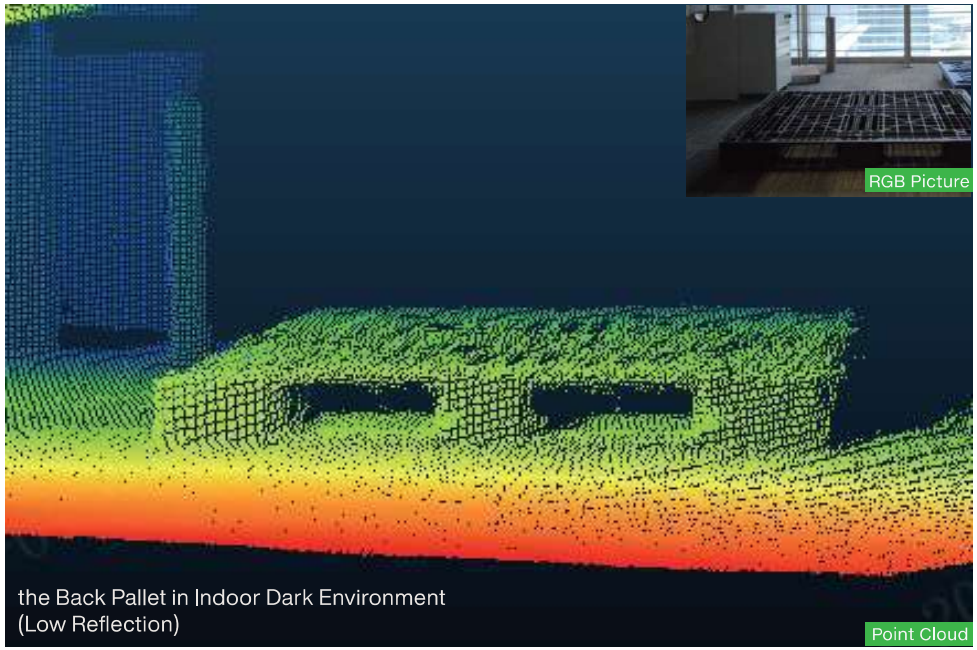
2020
Our products began to Transform to professional and systematic ones

2022
Industrial grade products development completed and put into test in the field

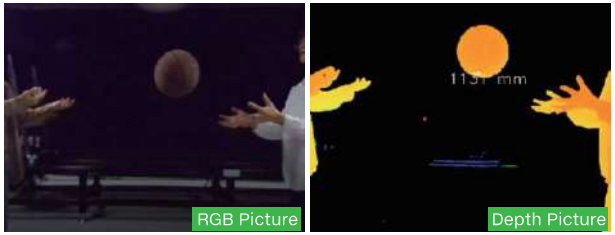
2023
Receiving positive feedback from industrial-oriented customers and realizing revenues

- 7 years R&D experience in TOF Technology
- Over 10 designed independently& mass produced TOF products
- Dozens of TOF technology related patents
- Independently developed TOF products for fast calibration
- Strong TOF module customization ability for quick delivery.

‘Outstanding’, anywhere, anytime!



the Nice Painted Car Outdoor
(High Reflection)

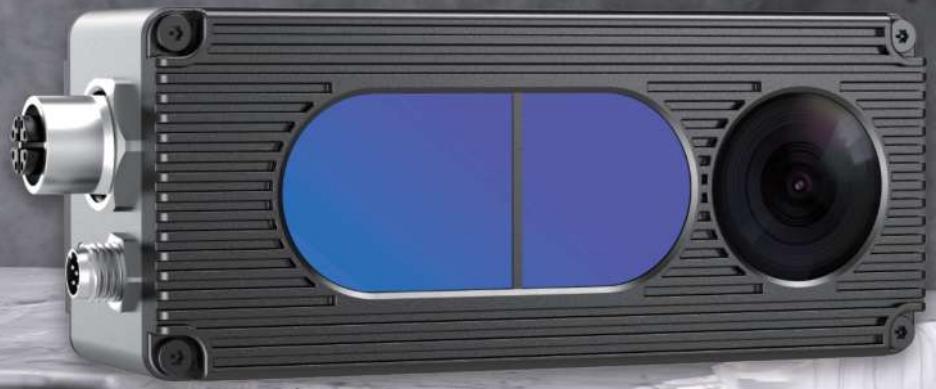


Fast throwing a ball indoor
(Low Reflection& High Speed)

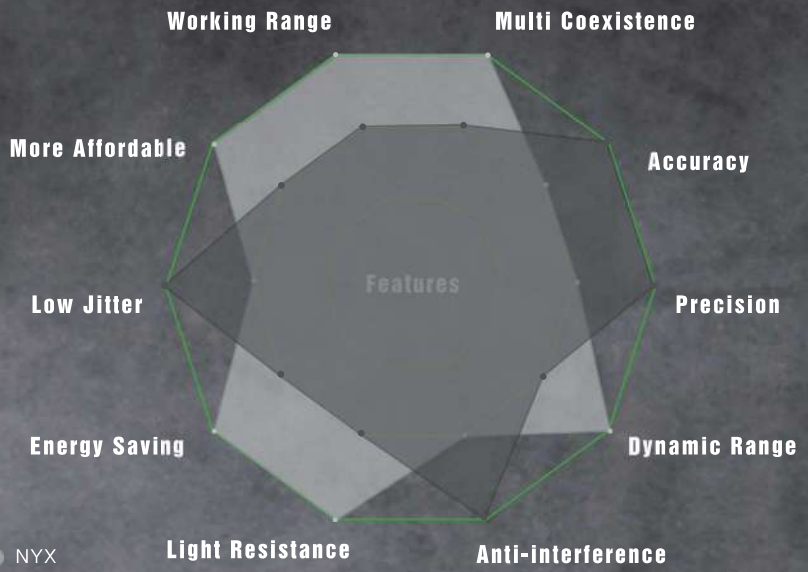
‘High Cost Performance’ from the inside-out

- TOP SENSOR (SONY& NUVOTON)
- TOP ILLIMINATION (LUMENTUM)
- GLOBAL SHUTTER RGB CAMERA
- GaN DRIVED CHIPS
- INDUSTRIAL LENS
- STABLE SDK SUPPORT

Goermicro



NYX SERIES
Based on Pulse iToF



DS SERIES
Based on Continuous Wave iToF

APPLICATION SCENARIOS

Goermicro

Automation Equipment

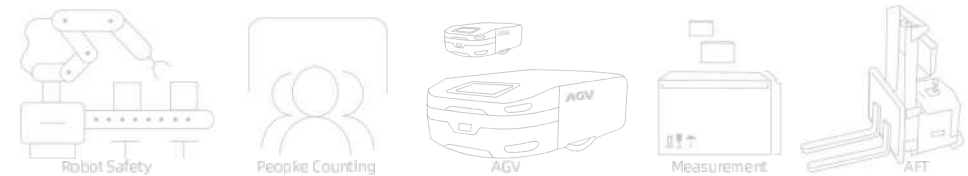
- Smart Palletizing& Depalletizing
- Pallet Recognition
- Robot Safety Ensurance
- Smart Agriculture
- Measurement
- Autostore

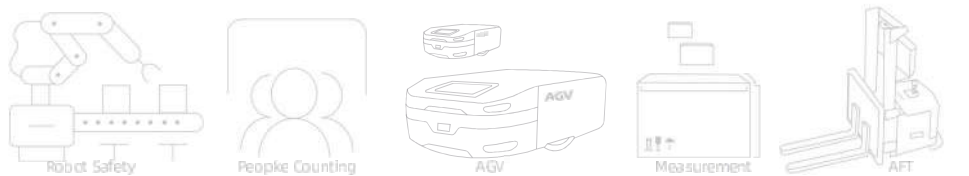
Gesture Perception

- People Counting
- Body Scaning
- Queue Control
- Automated Fare Collection
- Falling Detection
- Gesture Perception

DS 87/86 SERIES

Model	DS87 Series	DS86 Series
Sensor	Sony DepthSense ToF CMOS	
Illumination	940nm VCSEL * 2	
ToF Resolution/ Frame rate	640*480, Max.15fps	
ToF HDR Mode	Supported with Max. 10fps	
ToF FOV	67°(H)*50°(V)	
RGB Camera	1600*1200, Global Shutter, 70° (H)*50° (V)	
Output Format	16bit (Depth) + 8bit (IR) + JPEG (RGB)	
Transmission Technology	1000Mbps Ethernet	
Physical Connection	Aviation Plug x 2	RJ45
Power Supply	12V~24V DC or PoE+	12V~24V (DC)
Accuracy	<1%	
Working Range	0.15m to 5m	
Working Temperature	-20° C to +50° C	
Operation System & Platform	Windows/Linux/Arm Linux/ROS1/ROS2	
SDK	C/C++/Python	
Enclosure Rating	IP67	IP42
Conformity	CE, FCC, FDA	



NYX 660/650 SERIES

Model	NYX660 Series	NYX650 Series
Sensor	Nuvoton Depth Sense ToF CMOS (Originally Panasonic Semiconductor)	
Illumination	940nm VCSEL*2	
ToF Resolution/Frame rate	640*480, Max.30fps	
ToF FOV	70°(H)*50°(V)	
RGB Camera	1600*1200, Global Shutter, 71° (H)*55° (V)	
Output Format	16bit (Depth) + 8bit (IR) + JPEG (RGB)	
Transmission Technology	1000Mbps Ethernet	
Physical Connection	Aviation Plug x 2	RJ45
Power Supply	12V~24V DC or PoE+	12V~24V (DC)
Accuracy	<2%*	
Working Range	0.3m ~ 4.5m*	
Working Temperature	-20° C to +50° C	
Operation System & Platform	Windows7/8/10/11/ Linux/Arm Linux/ROS1/ROS2	
SDK	C/C++/Python	
Enclosure Rating	IP67	IP42
Conformity	CE, FCC, FDA