



#### About Us (TWSE: 2476)



Chairman: Yu-Huang Lin



Capital: \$61.82 M<sub>(USD)</sub>



CEO: Ying-Shuo Lin



Employees: 2,630 (Worldwide)

783<sub>(TW)</sub>



Est. 1973



DUNS#: 65632860



1/23

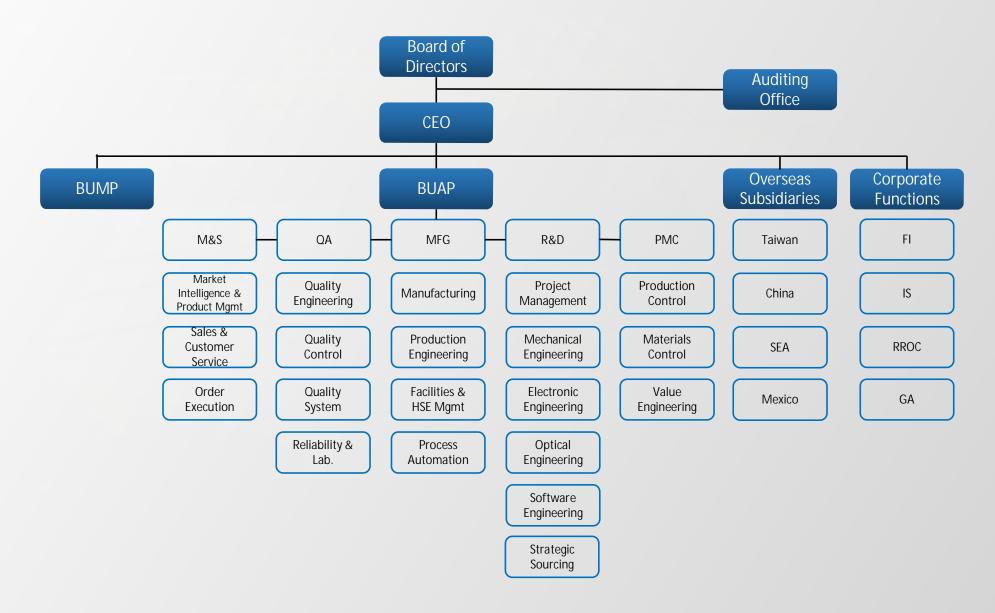


# Global Footprints



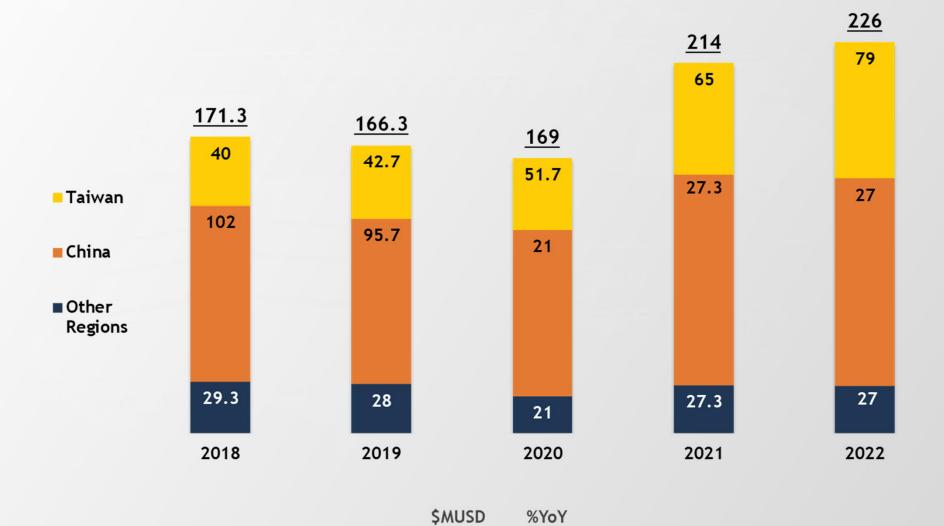


# **GS** Organization





#### Revenue Growth



(2018~2021 audited; 2022 unaudited)

4/23



## Portfolio by Segments

#### 19% Automotive

- Regulators
- Transmission Coolers
- GPS/ USB/ Charger Connectors
- Airbag & Seat Belt Connectors
- Air Conditioning
- Fuses
- Button Adaptors
- TPMS
- Headlight Parts
- Anti-theft Systems

### 28% Industrial and Others

- Sensors
- Relays
- No Fuse Breakers/ Switches
- PLC
- Timers
- Blood Sugar Testers
- Scalpels
- Semiconductor Lead Frames
- Furniture Parts
- Electronic Cigarettes



13%

#### Communications

- Mobile Phones
- ADSI
- Internet Related

#### 20% PC/NB

- I/O
- Type C
- USB
- HDMI
- FPC/FFC
- Memory Cards
- Board-to-board

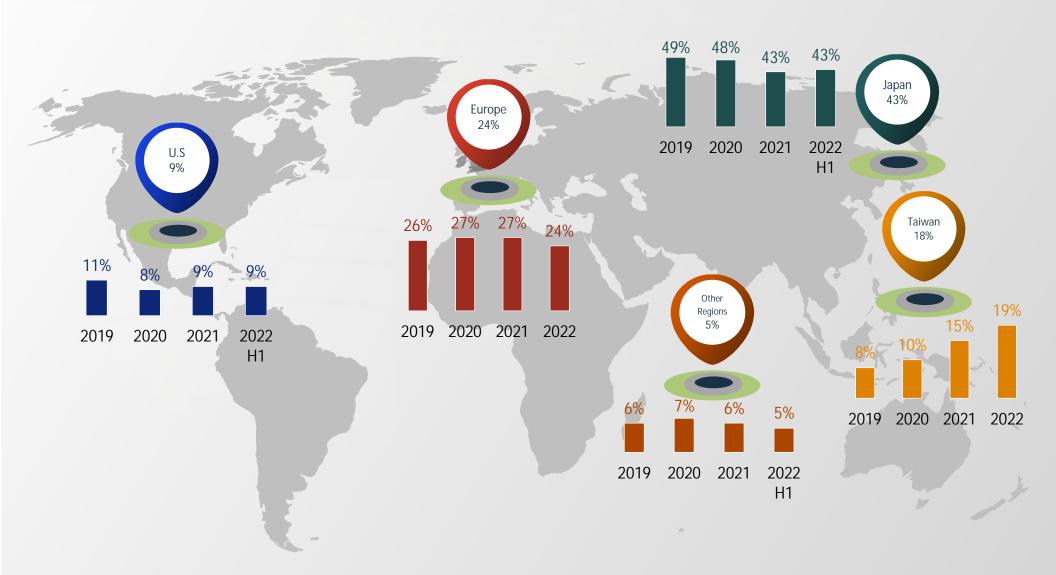
#### 20% Consumer Electronics

- Appliances
- Digital Cameras
- Gaming Parts
- Switches
- Video Recorders

\*2022YE 5/23



## Portfolio by Regions



\*2022YE 6/23



## One-Stop Shop Solution

#### Die Design



x110 sets (Monthly Capacity)

- 3D/CAD Design
- Design Database System

#### Stamping



- x**745** (10 400T)
- Servo Feeds
- AOI Machine Inspection

#### Insert-molding



x37

(35 -110T)

- AOI Machine Inspection
- Vertical, Horizontal Insert-molding Machine

#### Machining



x543

• E.D.M

• Drilling E.D.M

Grinder

Precision E.D.M.

Horizontal Profile

- Vertical CNC Machine
- Jig Grinder
- Profile Grinder
- Wire E.D.M
- Grinder
- Lathe
- Milling Machine
- Sawing Machine

#### Electroplating



4 Machines

8 Lines(Hoop)

Au (Gold) Sn (Tin)
Ni (Nickel)

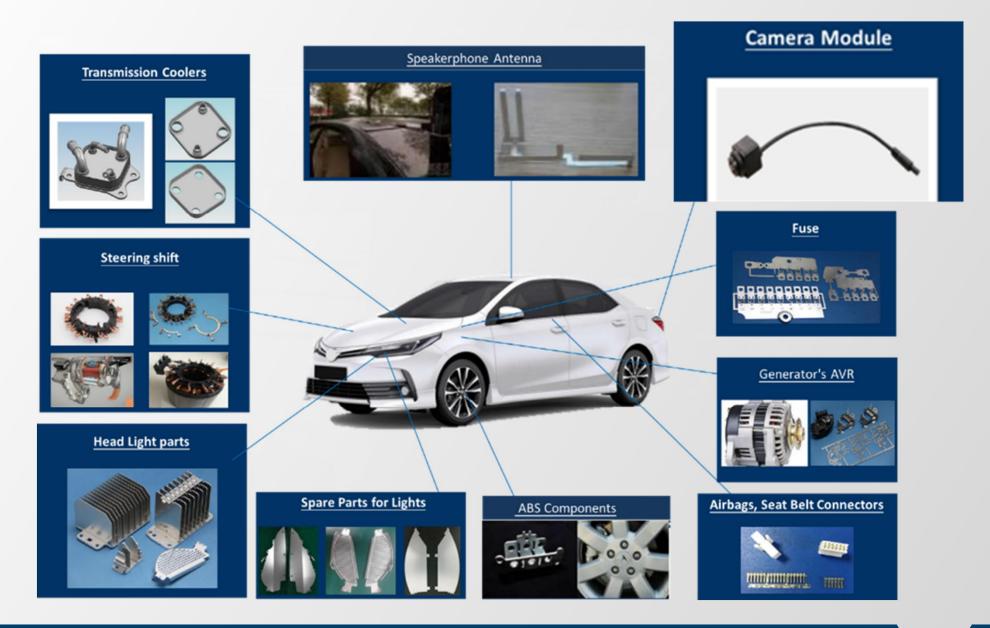
#### Automated Assembly



- R J 45 Connector
- D-SUB Connector
- Automatic Laser Welding Machine
- Automatic Silver Brazing Assembly
- Automotive Safety Device Assembly



# **Engaged Auto Parts**





## Key Focuses



- 80+ R&D Engineers
- 10+ Avg. Length of Service
- 5 Language:Chinese/English/Japanese/Korean/Spanish

- 3D Design & Database System
- 3 Industry-University Collaboration Training Center



Localized Purchasing Economies of Scale TOM Integrated Services



48 Years of Experience
3 Quality Certifications
AOI Machine Inspection



90% of Die Parts Manufactured Internally

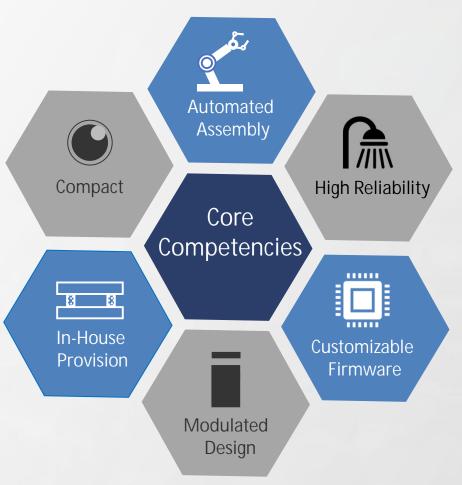
17+ Global Locations1 Stop Solution



# G-Shank Camera



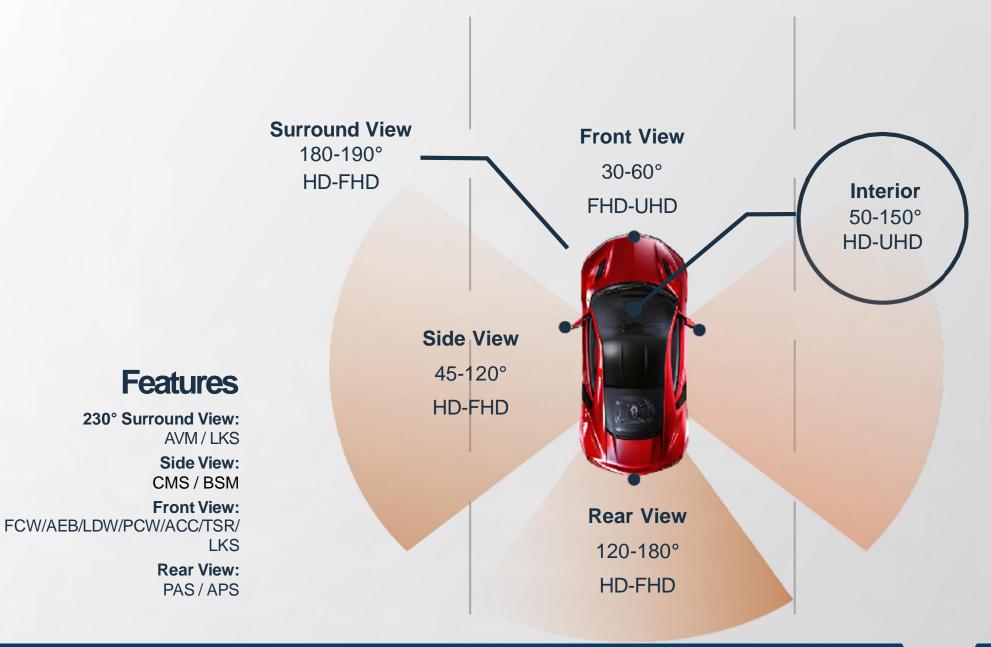
### Quality, Cost, Speed, Service



- In-house parts supply to speed engineering up and better control NRE costs
- Reliable and automated production to secure high-level quality and delivery
- Image quality and firmware supports to facilitate joint development with Customers



### **ADAS**





#### Auto Cam Menu

\*AHD/TVI

CMOS Sensor	Application	Rear View	Surround View	Side View
PixelPlus	HD	GSH5081*	GSH5072*	GSH50*
	FHD	GSF5051*	GSF50*	GSF50*
Omni Vision	HD	GSH5101 GSH8181	GSH5132 GSH5182 GSH8172	GSH51
	FHD	GSF5101	GSF51	GSF5104 GSF5183 GSF5184
On Semi	HD	GSH52	GSH52	GSH52
	FHD	GSF52	GSF52	GSF52
Sony	HD	GSH53	GSH5332	GSH53
	FHD	GSF53	GSF53	GSF53

Planned

Engineer Sample

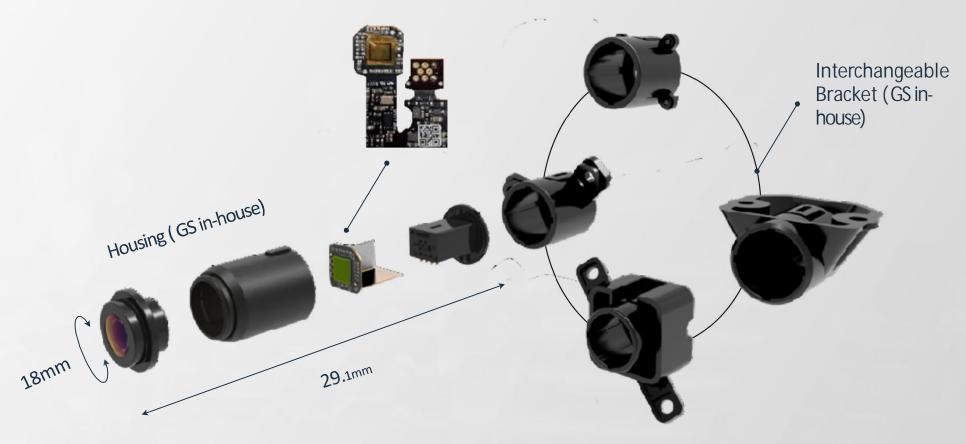
**Mass Production** 

※ HD: 1M ~ 1.3Mpixel FHD: 2Mpixel



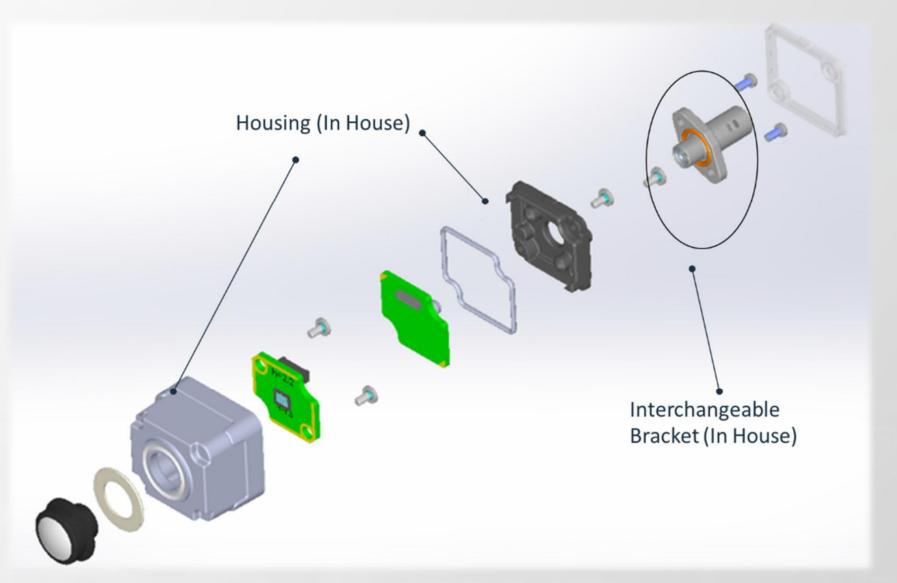
### Camera (bullet)

FPC/Sensor(GS in-house)

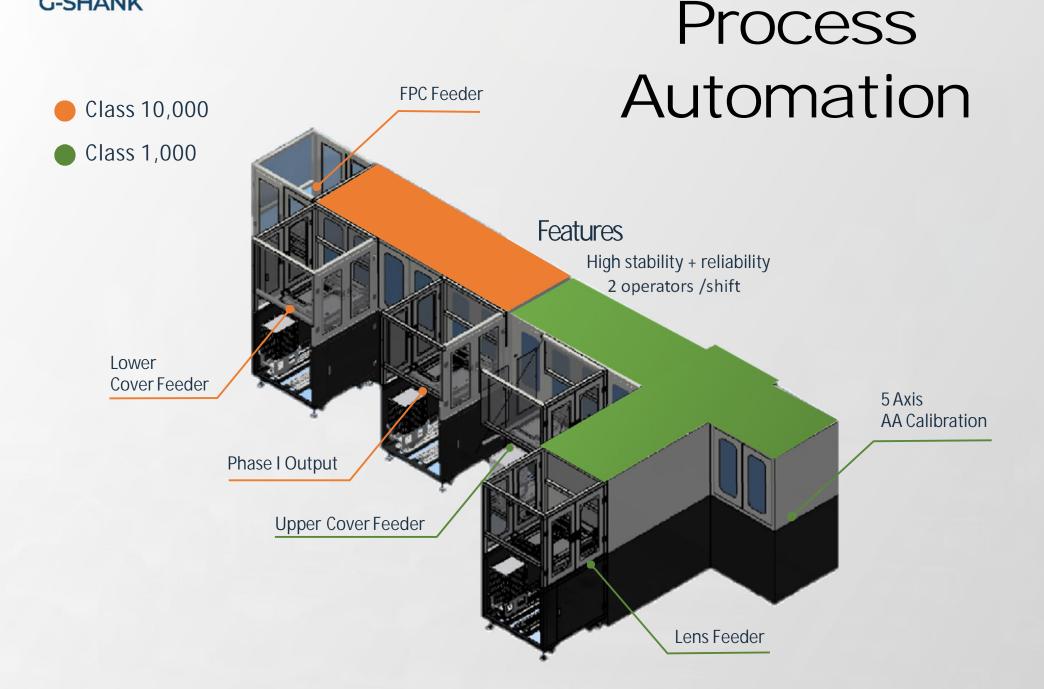




### Camera (block)









## Quality Assurance





## **Quality Certificates**



ISO 14001



IATF 16949



ISO 9001



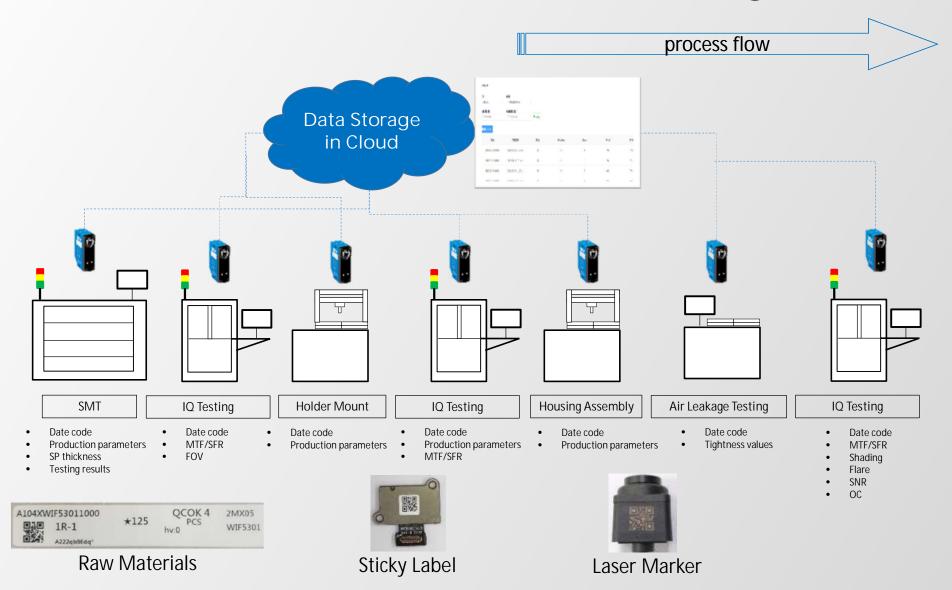
Sony GP



ISO 26000

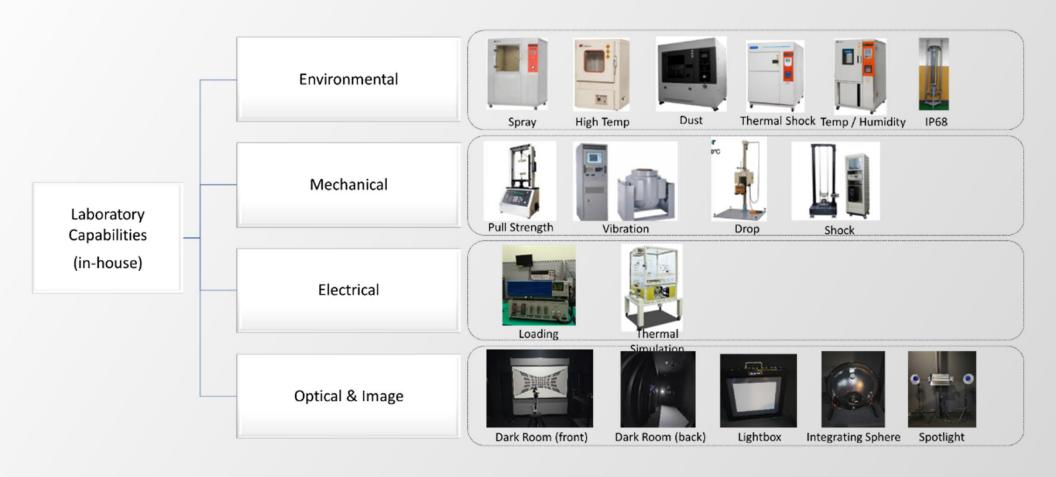


## Product Traceability





## Reliability Labs





# In-House Testing (30+)

Standard	Item	
ISO 16750-4 Climatic Loads	Tests at constant temperature	
	Temperature step test	
	Temperature cycling tests	
	Ice water shock test	
	Salt spray tests	
	Humid heat, cyclic test	
	Damp heat, steady-state test	
	Corrosion test with flow of mixed gas	
	Solar radiation	
	Dust test	
ISO 16750-3 Mechanical	Vibration	
	Mechanical shock	
	Free fall	
Loads	Surface strength/scratch and abrasion resistance	
	Gravel bombardment	

Standard	Item		
ISO 16750-2 Electrical	General		
	Direct current supply voltage		
	Overvoltage		
	Superimposed alternating voltage		
	Slow decrease and increase of supply voltage		
	Discontinuities in supply voltage		
	Reversed voltage		
Loads	Ground reference and supply offset		
	Open circuit tests		
	Short circuit protection		
	Withstand voltage		
	Insulation resistance		
	Electromagnetic compatibility		



# IQ Analysis

Test items	G-SHANK AVM Camera
Horizontal	182°
Vertical	112°
Diagonal	202°
Resolution-Center	620.2LW/PH
Resolution-Corners	511.7LW/PH
Low Illumination	0.72 @10 Lux
	0.12 @1 Lux
- Signal Level	0.15 @0.1 Lux
Low Illumination	0.67@10 Lux
- Noise	0.37 @1 Lux
- MOISE	0.28 @0.1 Lux
Color Saturation	110.4%
Color Difference	△E*ab Mean=7.77
	△C=3.5 @ 6500K
AWB Error	△C=3.0 @ 4800K
	△C= 4.1 @ 3100K
Auto Exposure	Normal
Low Illumination (vision@0.1Lux)	Normal



#### Core Values

Integrity: We strive to create an environment builds on trust in which our employees are treated equally and as valued team members.

Commitment: We make it our aim to develop relationships with our Customers that create a positive impact on everyone's lives.

#### Our Vision

G-SHANK is dedicated to precision manufacturing, with the intention of becoming the leading brand of the industry.





No. I,Jiuzhou Rd.,Hsinwu Dist., Taoyuan City,Taiwan 32741

www.gs.com.tw

