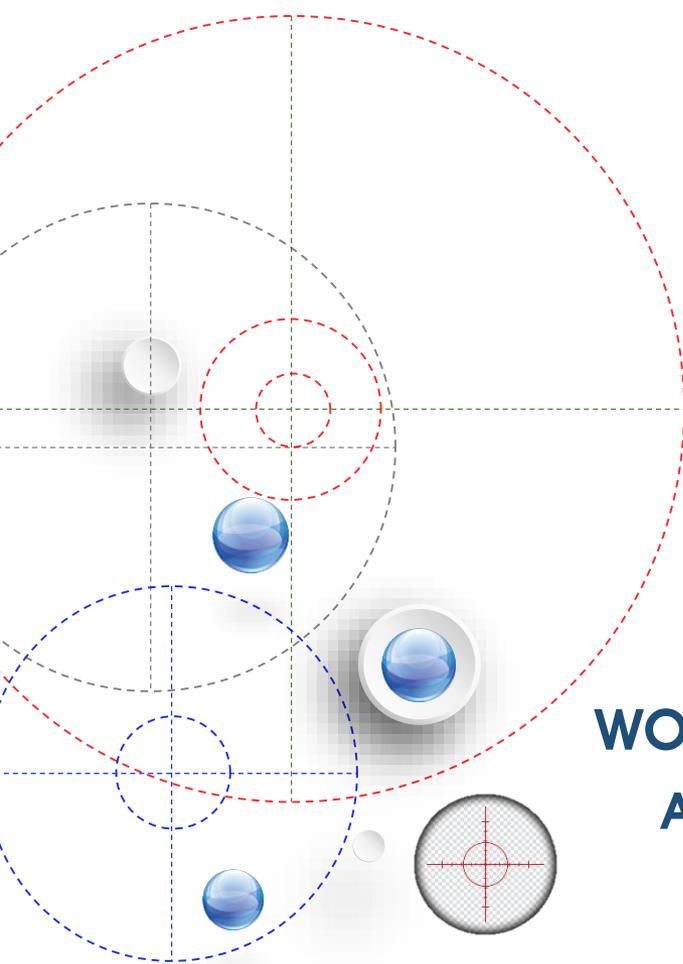


WOO KYUNG OPTICS



WOO KYUNG OPTICS Co., Ltd.
ANSAN, REPUBLIC OF KOREA

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OVERVIEW



Woo Kyung Optics co., Ltd is a renowned & trustworthy precision optics company producing ultra-precision optical equipment for defense.

As an industry leader in Korea and official defense product supplier to the Korean Army, it designs and manufactures high precision optical products such as Fire Control Equipment, Reflex Sight(Dot Sight), Night Vision, Magnifier, etc.

Through its advanced production system and DQMS(Defence Quality Management System) certification by the Korean government, the company is supplying best quality products to the Korean armed forces and global market.

In addition, with its technical power and experienced engineers pool, the company is producing & exporting biometrics module (Fingerprint Sensor) to commercial market worldwide.



CEO



Dr. J. B. Ryu / CEO is the founder of WKO ever since it was established in 2001.

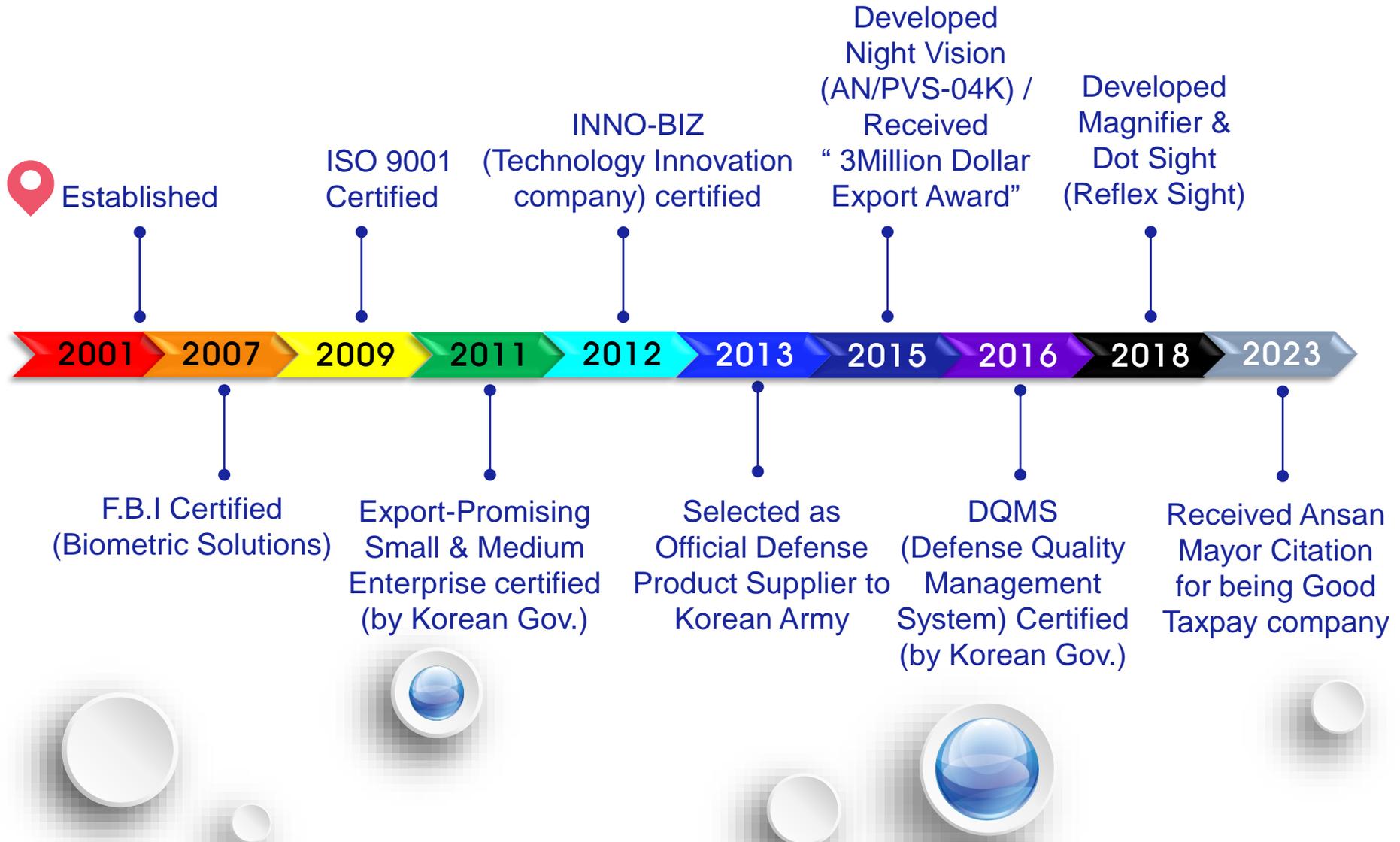
Prior to joining WKO, he had worked for Dae-Han Optics for over 20 years.

Dr. J. B. Ryu was the chief operating officer of the production & quality Division at Dae-Han.

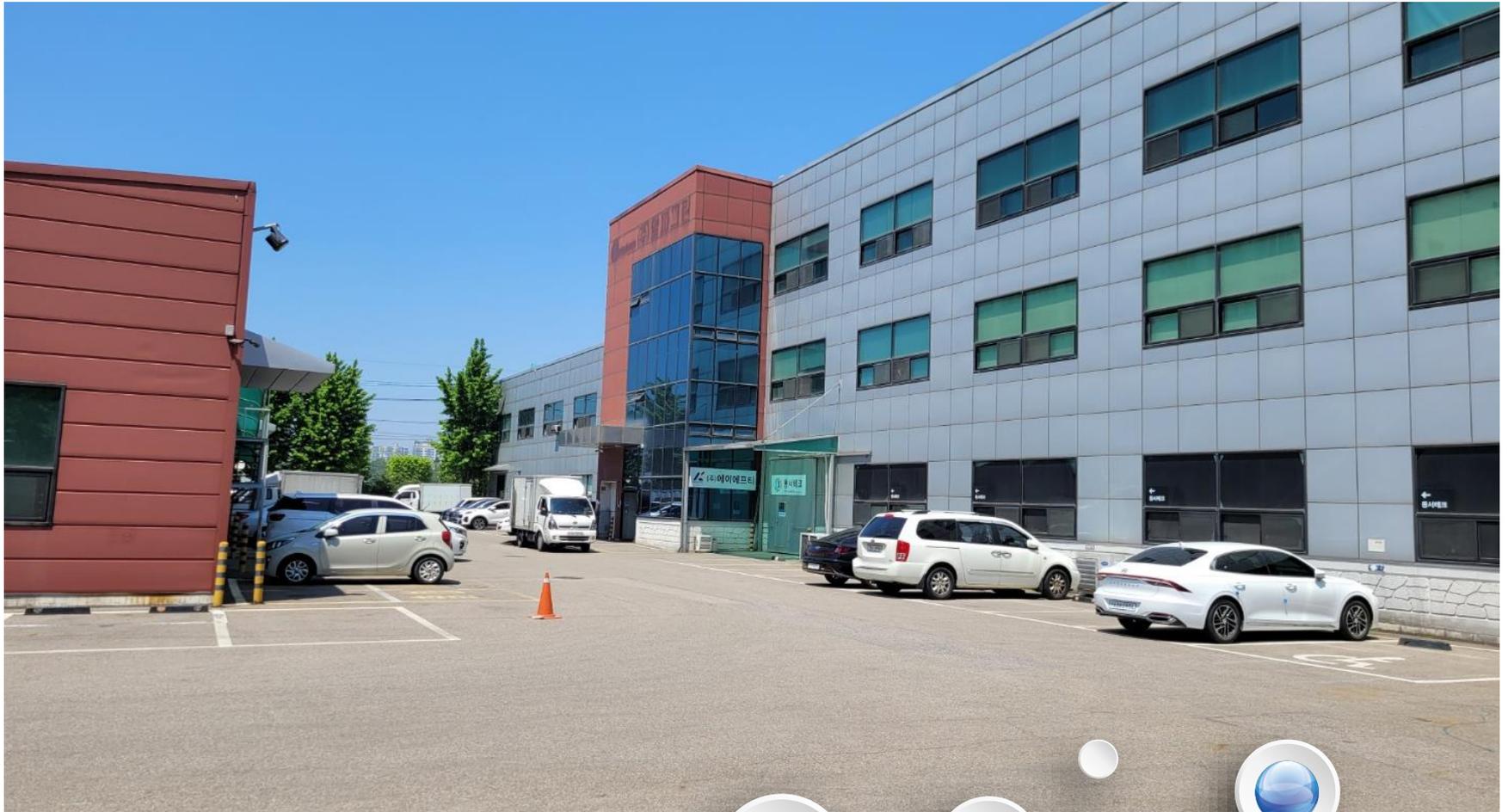
Over the 40 years in the optic industry, he played a key role in the continued development of precision optical products in Korea.



HISTORY



FRONT VIEW OF COMPANY



PRODUCTS



Military Products (Fire Control & Optoelectronic Equipment)

- * Panoramic Telescope for Self-Propelled Howitzer K-9, Artillery 155mm/105mm
- * LED Collimator, Aiming Circle M2, Elbow Telescope
- * Sight Unit & Alignment Device for Mortar
- * Red Dot Sight & Magnifier for Rifle
- * Night Vision WOE14K/PVS-04K

Commercial Products

- Fingerprint Device (Export only)

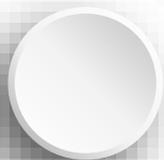


MAGNIFIER



MAGNIFICATION	3.0 X
FIELD OF VIEW	7.1°
EYE DIOPTRER RANGE	-2.0 ~ +2.0 diopter
EYE RELIEF DISTANCE	65 mm
OPERATION TEMP. RANGE	- 45° C ~ +72° C
DIMENSION (L X W X H) WITH MOUNT	73.5 x 45.4 x 71.8 mm
WEIGHT WITH MOUNT	276 g
WATERPROOF	IP68
ATTACHMENT	ON GUN RAIL (PICATINNY RAIL)

- ✓ **High Performance**
- ✓ **Compact**
- ✓ **Light Weight**

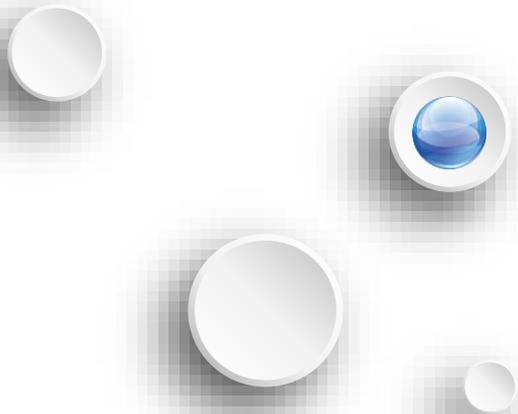


RED DOT SIGHT (REFLEX SIGHT)



- ✓ *High Accuracy*
- ✓ *Compact*
- ✓ *Light Weight*

DIMENSION (L X W X H) WITH MOUNT	68 x 69.7 x 53 mm
WEIGHT WITH BATTERY AND MOUNT	< 182g
MAGNIFICATION	1.0 X
EYE RELIEF	Unlimited
CLICK ACCURACY (ADJUSTMENT PER CLICK)	0.5 MOA (0.5 inch at 100yds)
TARGET DISTANCE	25cm ~ Infinity (∞)
ATTACHMENT	On gun rail (Picatinny Rail)
BATTERY LIFE	More than 10,000 Hours
LED LIGHT STEP	12 Step
AZIMUTH MOVEMENT	9 MOA / 18 Click
ELEVATION MOVEMENT	9 MOA / 18 Click



NIGHT VISION



FEATURE	Single battery	Double batteries
WEIGHT WITH BATTERY	< 360g	< 380g
BODY MATERIAL	Engineering plastic	Engineering plastic
BATTERY	1 AA Battery (55 ~ 60 Hours)	2 AA Battery (80 ~ 90 Hours)
MAG./FOV	1.0 X (Unity) / 40°	
IMAGE INTENSIFIER TUBE	18mm, Gen.3 (U.S.A)	
FOCUS RANGE / EYE DIOPTR RANGE	25cm to infinity / +2 to -6 diopters	
ATTACHMENT	Helmet, Gun rail	



FIRE CONTROL EQUIPMENT



**PANORAMIC TELESCOPE
M117A2**



**K-9 SELF-PROPELLED
HOWITZER**



FIRE CONTROL EQUIPMENT



**PANORAMIC TELESCOPE
KM12A8**



**ELBOW TELESCOPE
KM16A2**



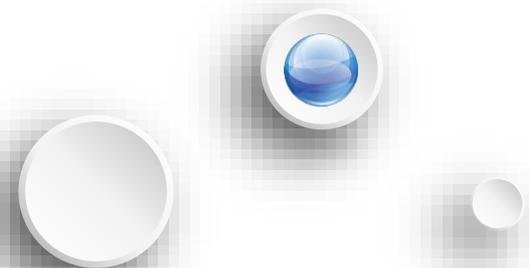
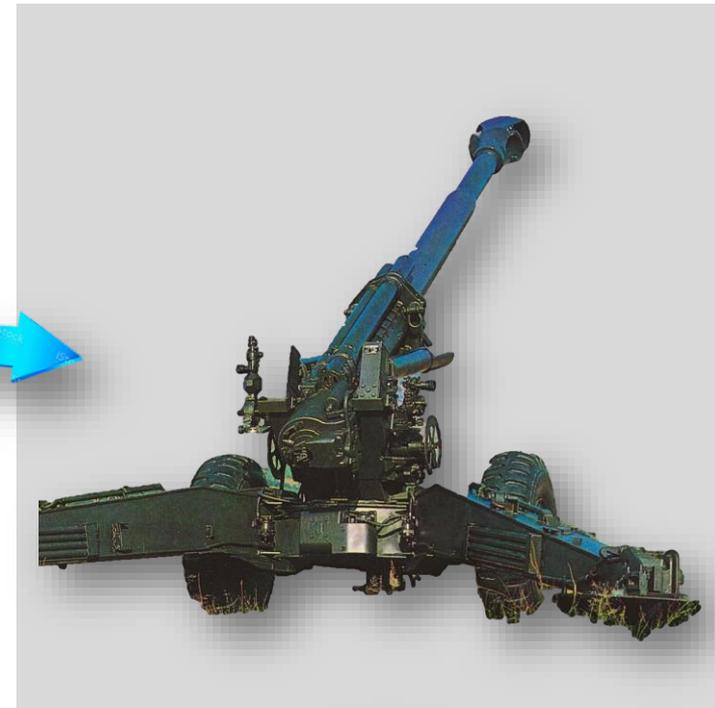
**PANORAMIC TELESCOPE
M12A7C/H/S**



**ELBOW TELESCOPE
M16A1D**



HOWITZER 155mm



FIRE CONTROL EQUIPMENT



SIGHT UNIT M53



ELBOW TELESCOPE M109



SIGHT UNIT KF812



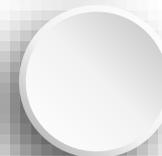
ELBOW TELESCOPE KF812



ALIGNMENT DEVICE KM45A1



MORTAR



FIRE CONTROL EQUIPMENT



TELESCOPE M103



TELESCOPE MOUNT M90
ELBOW TELESCOPE M92D/F



TELESCOPE, STRAIGHT
XM134



RECOILLESS RIFLE



VULCAN



FIRE CONTROL EQUIPMENT



**COLLIMATOR KM1A2
(w / LED illumination)**



**COLLIMATOR INFINITY
AIMING REFERENCE
KM1A2**



AIMING CIRCLE M2



M140 ALIGNMENT DEVICE



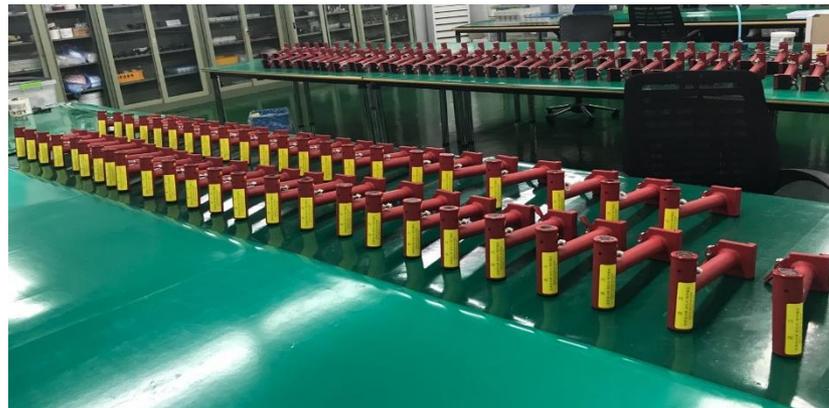
RECENT PERFORMANCE - I



SIGHT UNIT KF812



ALIGNMENT DEVICE M140



RECENT PERFORMANCE - II



**PANORAMIC TELESCOPE
KM12A8**



ALIGNMENT DEVICE KM45A1



**PANORAMIC TELESCOPE
KM12A8**



**COLLIMATOR INFINITY AIMING
REFERENCE KM1A2**



RECENT PERFORMANCE - III



COLLIMATOR with TRIPOD & CASE KM1A2



COLLIMATOR with TRIPOD & CASE KM1A2



COMMERCIAL PRODUCTS



Biometric Solutions (in partnership with SecuGen/U.S.A)



Fingerprint Readers

O.E.M Fingerprint Modules

Fingerprint + Smartcard Readers



MAJOR CUSTOMERS

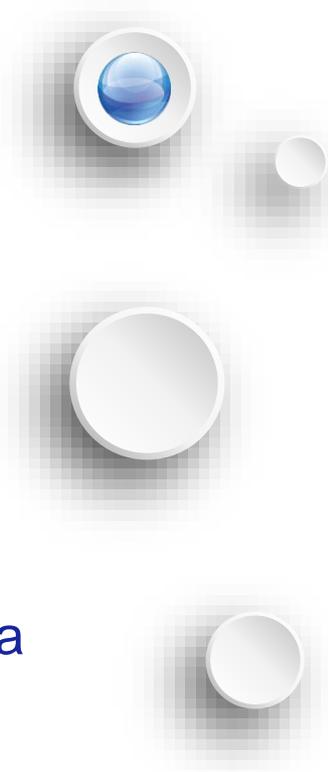


Military Products

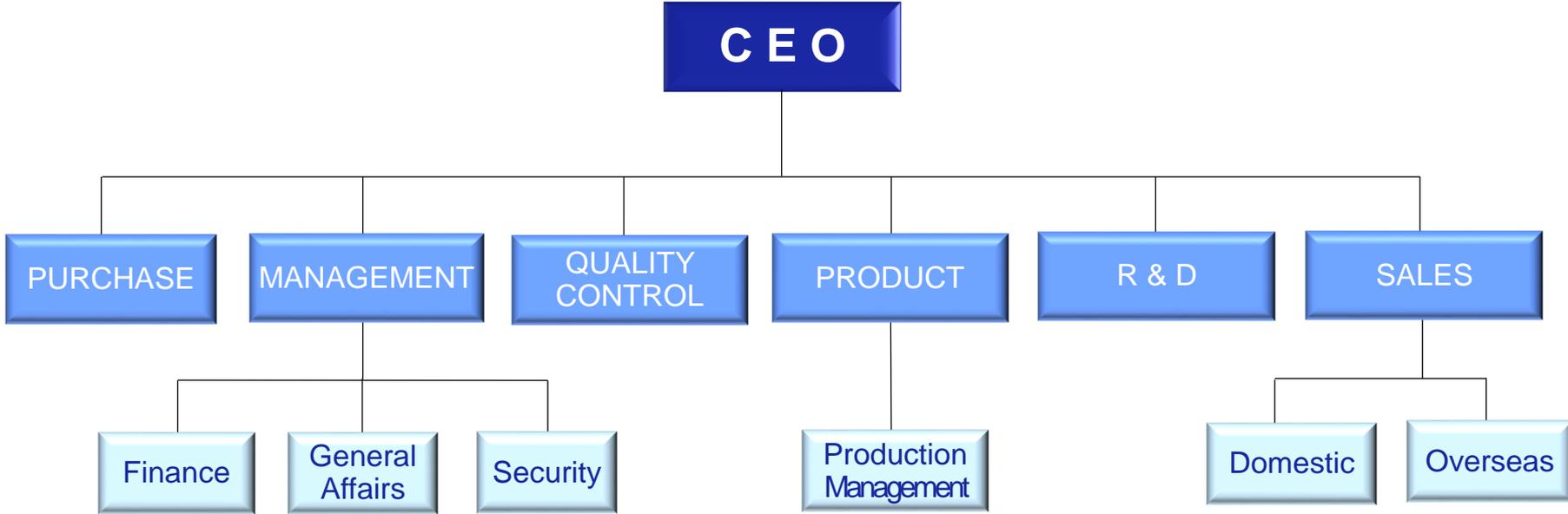
- * Korean Army
 - DAPA (Defense Acquisition Program Administration)
 - Army Logistics Command
 - ADD (Agency for Defense Development)
 - Agency for Army maintenance
- * Hyundai WIA Korea
- * Hanwha Aerospace
- * Overseas (Indonesia, Thailand, UAE, Chile, Poland etc.)

Commercial Products

- * SecuGen USA * Bytcell Technologies PVT / India
- * Commlink Info Tech / Bangladesh
- * Retaam Solutions / Saudi Arabia
- * Sig Corporation / Japan * Invixium Access INC / Canada
- * Timeware LTD / UK etc.



ORGANIZATION



QUALITY ASSURANCE



WKO
(*DQMS Certified)

* DQMS : Defense Quality Management System



***DAPA**
(Korean Government)

* DAPA : Defense Acquisition Program Administration

Contract & supply

Inspection

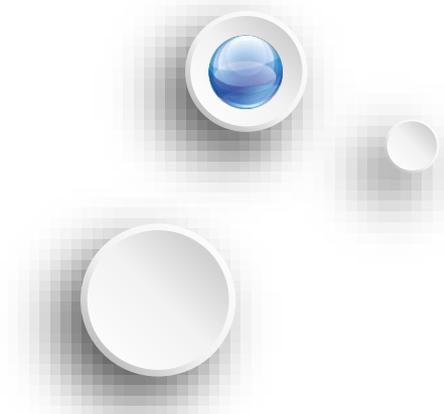


Inspection Request



***DTaQ**
(Government Agency)

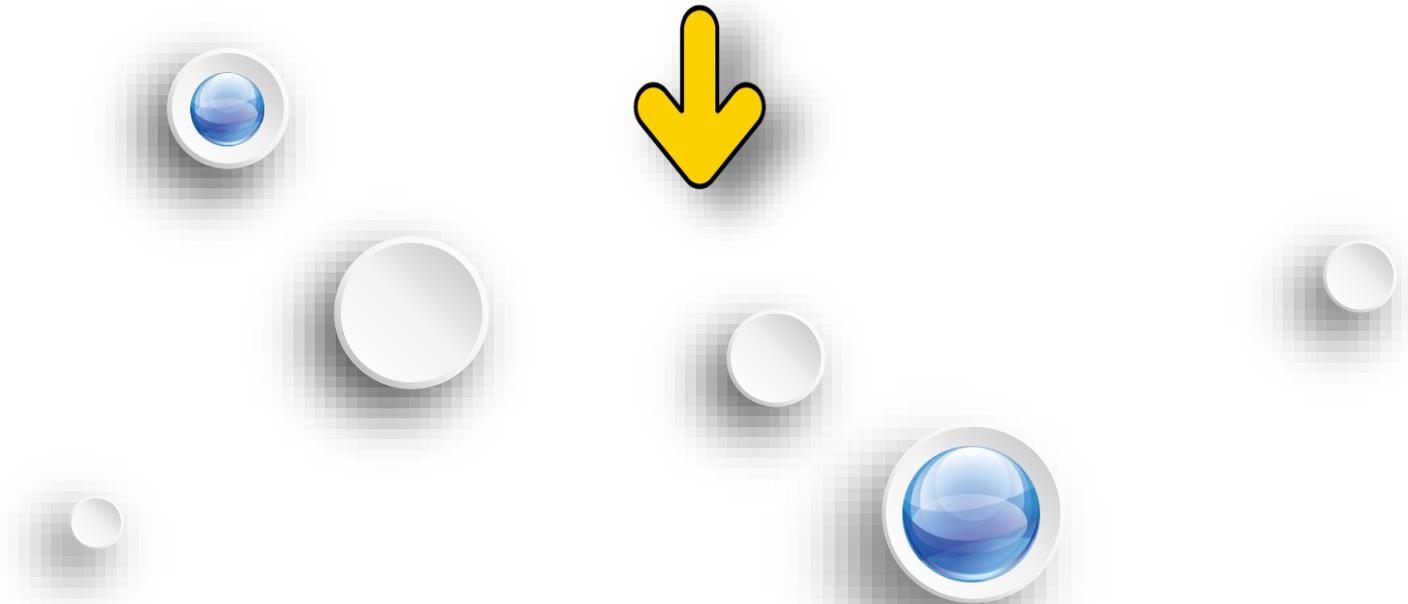
DQMS Certification
Quality Inspection
* DTaQ : Defense Agency for Technology & Quality

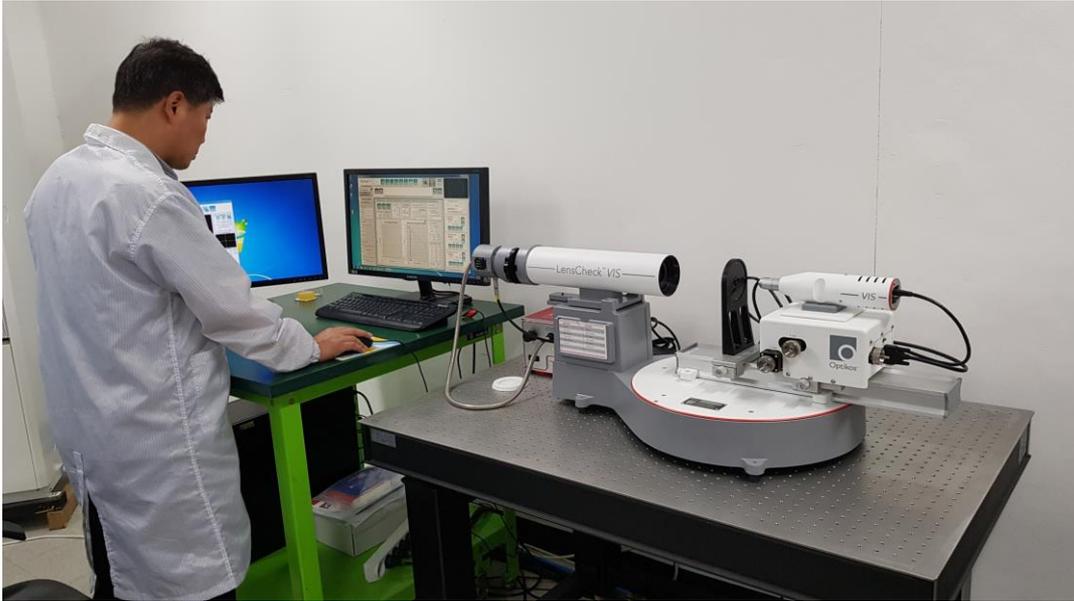


FACILITIES

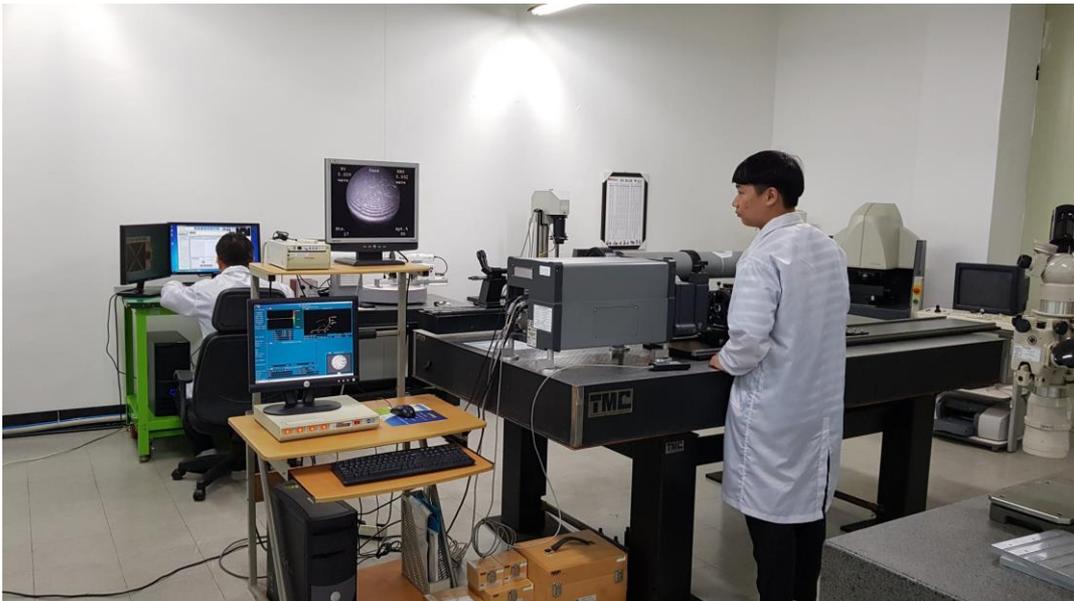


(TEST / INSPECTION / PRODUCTION)

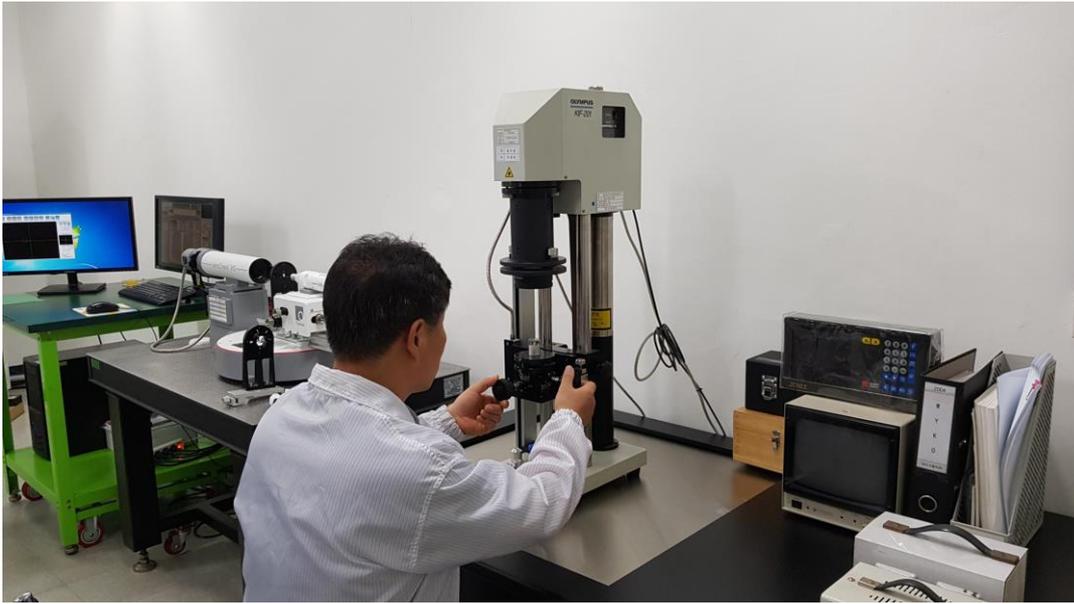




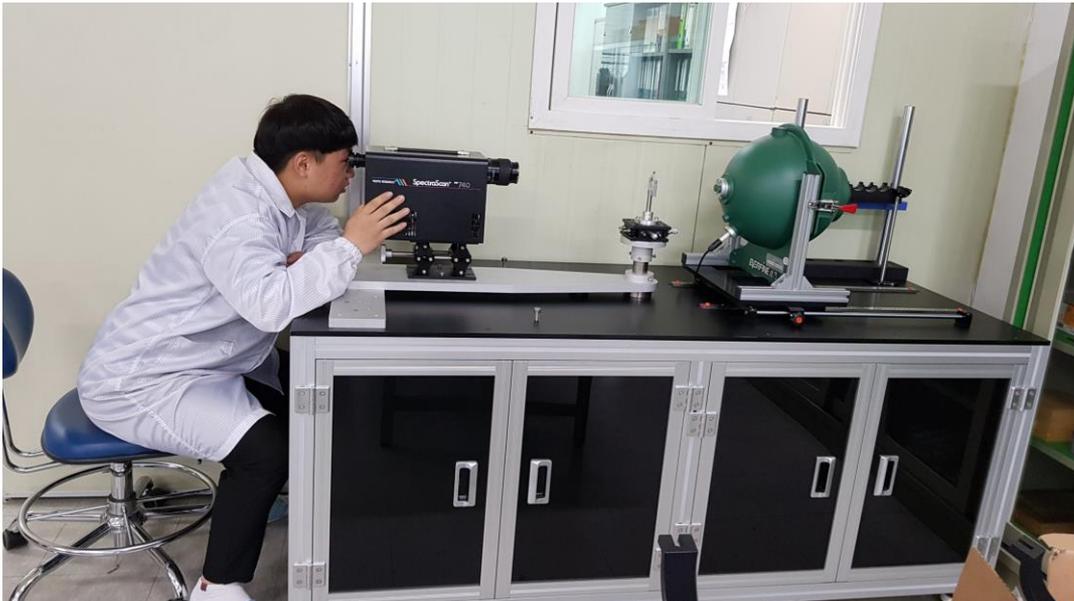
📍 **MTF Tester
- Modulation
Transfer
Function**



📍 **Zygo
Interferometer**



 **Interferometer**



 **Photometer**



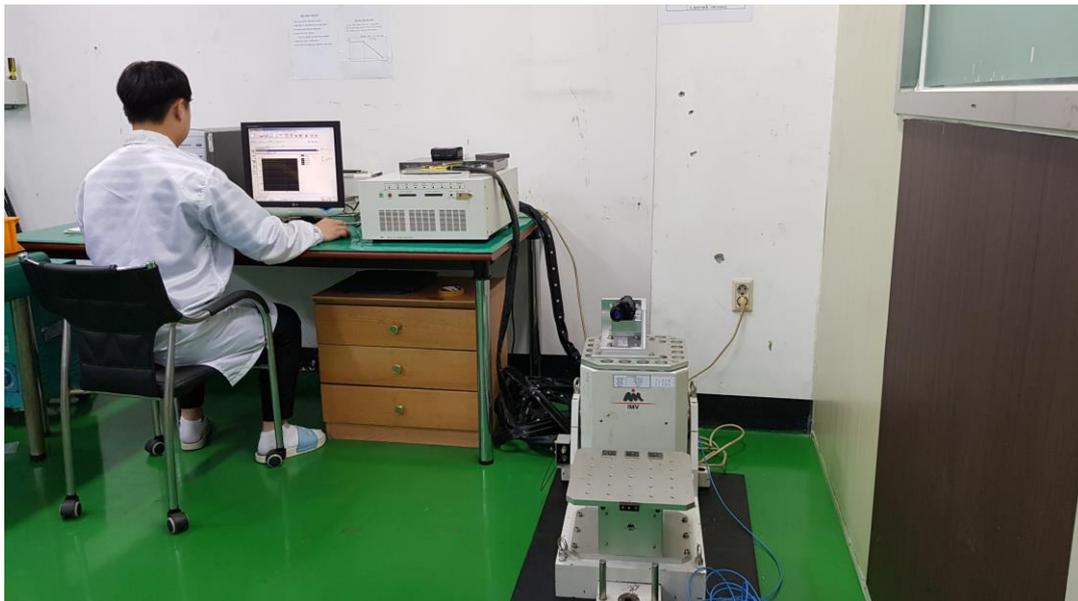
 **E.F.L Tester**



 **Spectro-
photometer**



 **Temperature & Humidity Tester**



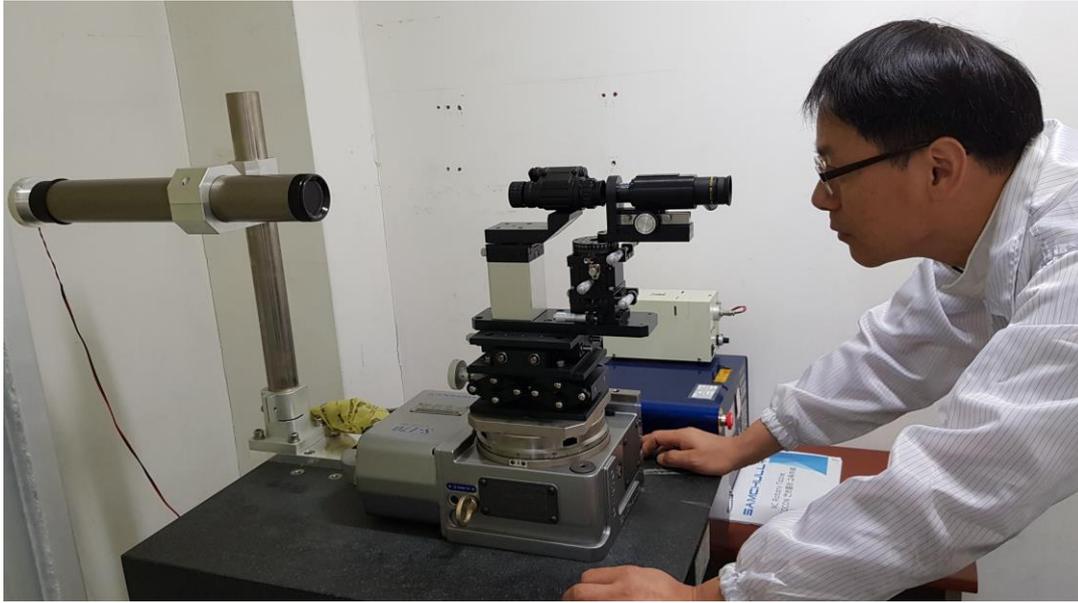
 **Vibration Tester**



 **Shock Tester**



 **Night Vision Tester**



 **Night Vision Tester**



 **Resolution Tester**



 **Assembly Line**



 **Assembly Line**



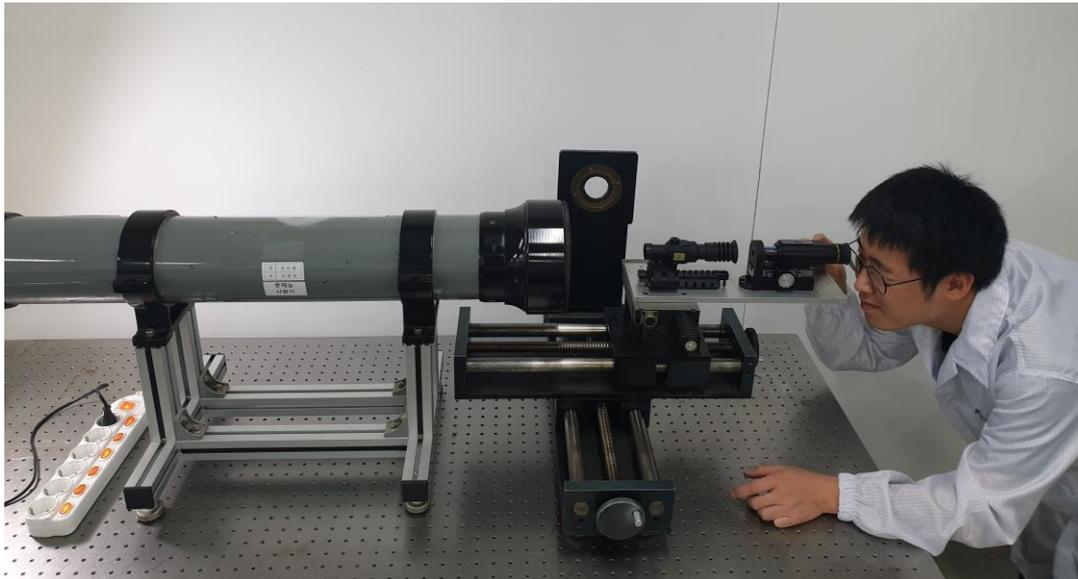
 **Assembly Line**



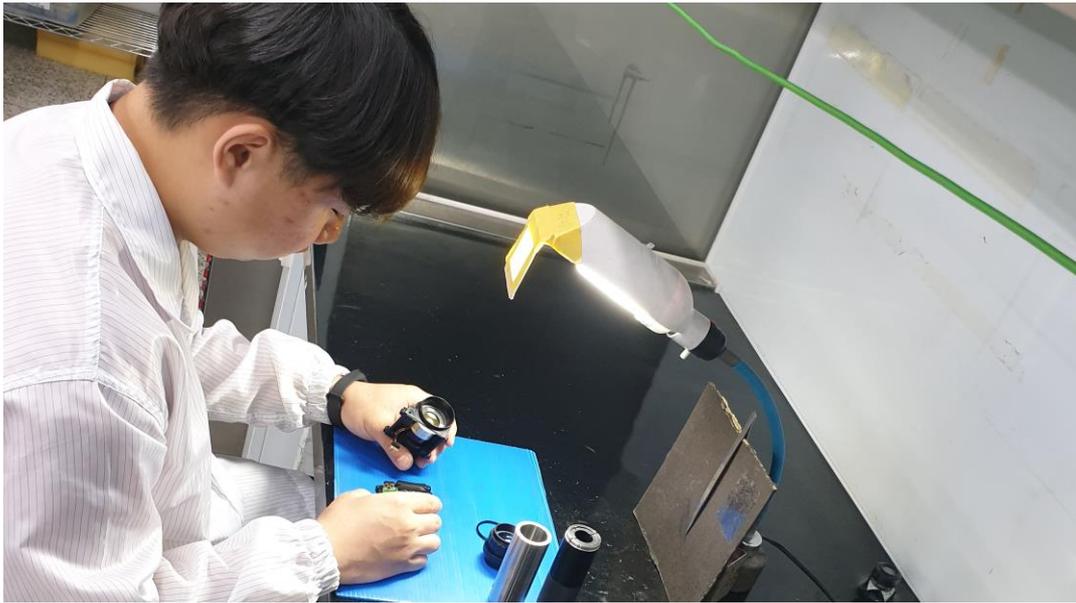
 **Assembly Line**



 **Assembly Line**



 **Assembly Line**



 **Assembly Line**



 **Assembly Line**



Optical Parts



Metal Parts



 **Metal Parts**



 **Metal Parts**

CONTACT INFORMATION



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THANK YOU