



AiST TECH

Sensor Technology

AiST tech Inc., has IoT technology, sensing technology, etc.
We strive to protect the social values of living together by developing technologies that can make everyone's lives comfortable without discrimination.



C O M P A N Y	AiST TECH Inc.
C E O	Oh Suk-Sim
ESTABLISHED	2019.03.07
B U S I N E S S	X-ray Line Detector
HEAD OFFICE	Room 504-2, Iksan technical center, 370 Dongseo-ro, Iksan-si Jeollabuk-do
R&D CENTER	3-2, Seonhwa-ro 63-gil, Iksan-si, Jeollabuk-do

The only X-ray Line Detector company in Korea.

AiST tech Inc., is the first company in Korea to develop an industrial X-ray Line Detector.

The name derived from the Greek word ‘αισθητήρας’, which means sensor, means manufacturer of radiation devices using sensors. It contains the vision and willingness to lead the global market by sensitively detecting and reflecting social trends.

A solid technical ability.

It is contributing to the field of in-line non-destructive inspection by possessing micro-signal detection technology, high speed digital image processing technology, and steadily accumulating technology of X-ray image processing algorithm. In this regard, it won various technology awards(Jeonbuk Makers Competiton, K-Start-up 2019) in Korea.

Patents for core technologies.

We are working to protect intellectual property rights by applying for patents related to core technologies such as free integration control technology and multi-point calibration.

2019

- **03** Established AiST tech Inc.
 - **05** X-ray Line Detector Prototype Development
 - **09** Development of X-ray line detector for LDPE
 - **10** JBTP 2019 , won the Encouragement Award for "Makers Competition"
 - **12** Patent "Dual energy type X-ray line scanning device with sensor frame for modular configuration and tiling method using it"
- Jeonbuk Creative Economy Innovation Center "Challenge! K-Start UP! 2019 Startup Competition"

2020

- **01** Detector development for low-density material detection
- **03** Kunsan University Family Company, Established Corporate R&D Center
- **06** JBTP 2020 Honam 3D Printing Industry Exhibition "Makers Contest" Encouragement Award
- **09** Release of FLIES Series
Contract Winsysems agency
- **10** Developed a detector with a maximum speed of 100m/min
Contract Bontech agency

2021

- **04** Selected as a company specializing in materials and parts equipment
- **06** Technology development of X-ray Line Detector for in-line total inspection of pouch-type secondary batteries
- **07** Patent registration for X-ray line scanning device

2022

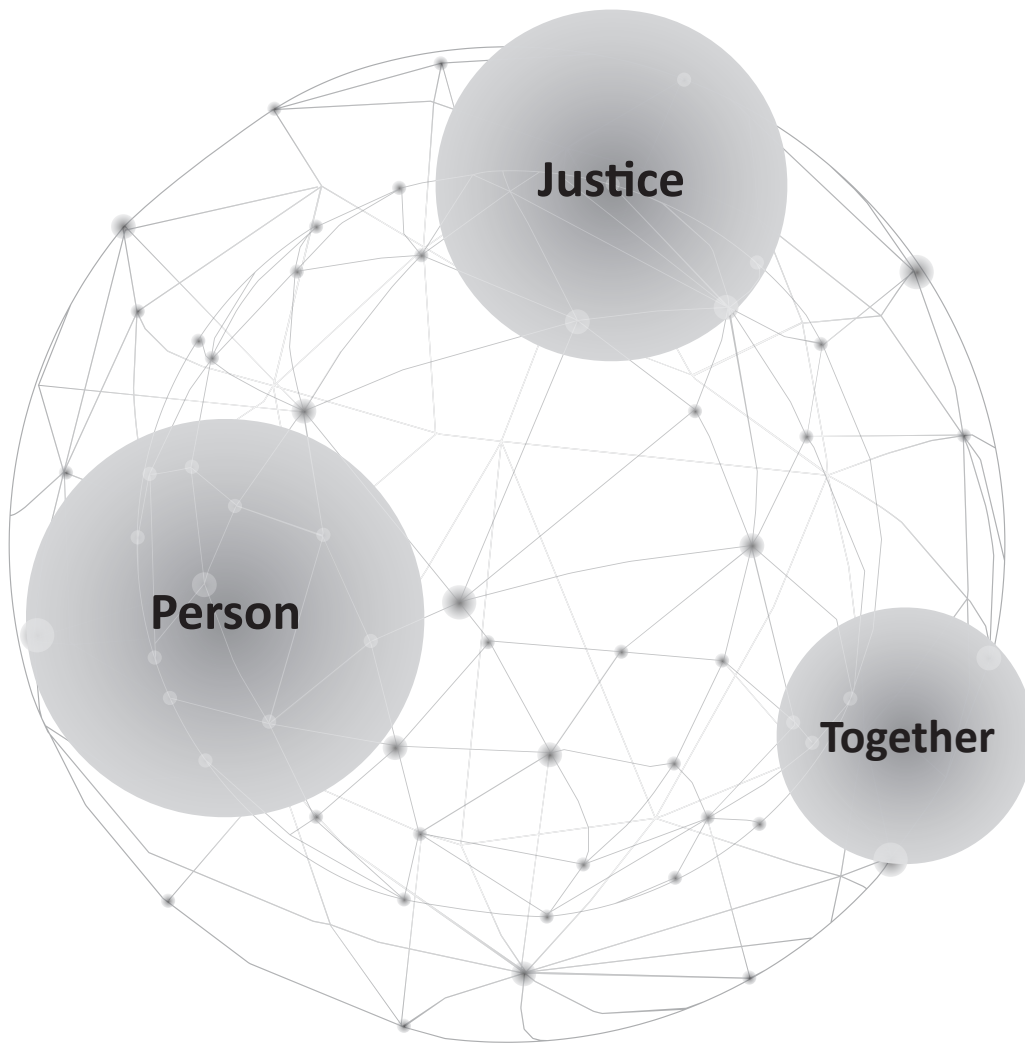
- **04** Development of high-resolution X-ray detector and density analysis SW for sorting agriculture products

Patent application for X-ray detector with shield applied

Patent application related to X-ray Line Detector speed control device
- **05** Started supplying X-ray inspection equipment to 3 domestic companies

Since 2020, AiST tech Inc. has been supplying the X-ray Line Detector "FLIES" series developed with its own technology to distributors.

Starting with this, we will promote domestic technology in the global industrial detector market and further develop technologies that are more beneficial to society.



A fair society that achieves and shares together practicing

AiST tech Inc. promotes the public interest and grows together.

We aim for coexistence with our employees by achieving mutual development through fair and equitable competition.

Development of technologies beneficial to people's lives

AiST tech Inc.'s technology development aims for a better life.

We strive to prevent unnecessary environmental damage while developing technologies that are beneficial to people's lives.

Duty to a society in which we live together

Aist tech Inc. pursues common happiness as a member of the social community and practices it by sharing.

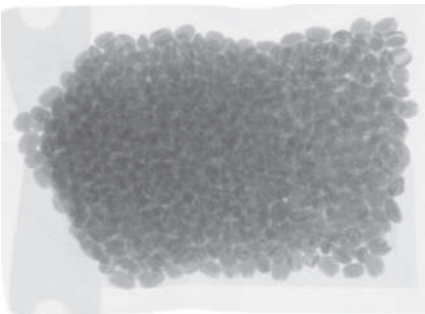
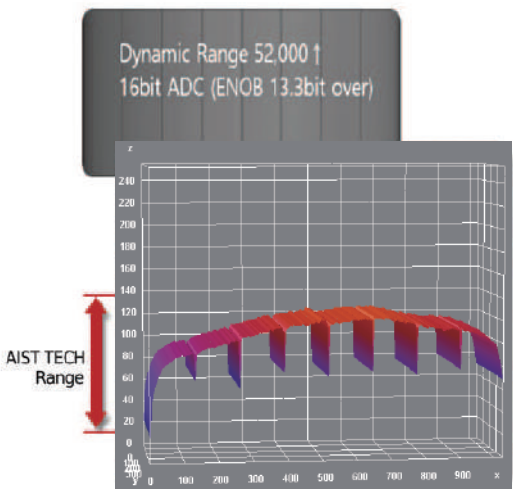
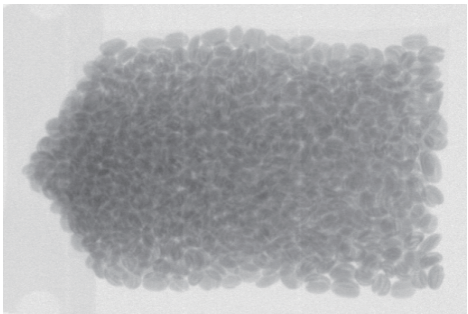
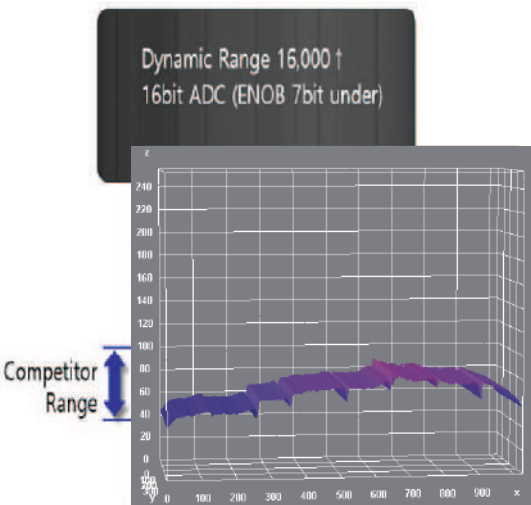
We consider the direction for the local economy by practicing sharing and volunteering, and we contribute to society through actions.

X-ray Line Detector is a foods, pharmaceuticals and automotive battery industry, etc.

After a long period of research and contemplation, **AiST tehcn Inc.** has developed X-ray Line Detector



* FLIES C Series Model

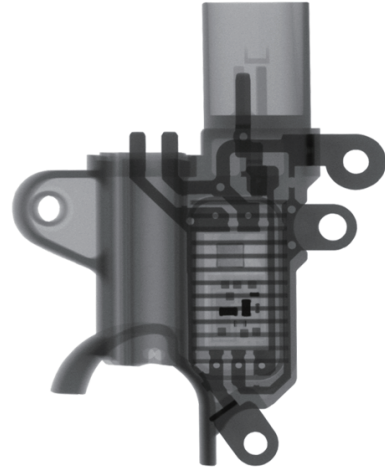


Dynamic Range

As Wider Range in Gray Level as an image, subject containing of substances with various densities can also be identified accurately.

Model Number	FLIES C256	FLIES C410	FLIES C620
Energy Range	30~160kV		
Scintillator	GOS (DRZ-HI, Tungsten Shield)		
Active Area(mm)	256.9	411.1	616.7
Pixel Pitch(mm)	0.4 / 0.8		
Number of Pixel	640 / 320	1024 / 512	1536 / 768
AD Converter	16bits (ENOB 13.3bits)		
Scan Speed(m/min)	2 ~ 200(0.4mm) / 300(0.8mm)		
Length(mm)	298	453	658
Width/Height(mm)	125 / 35		
Weight(kg)	2.1	3.4	5.2
Software	Windows 7/10 (x86/x64), SDK Microsoft Visual C++		
Image Format	RAW Image(16bits, tiff), CAL Image(16bits, tiff)		

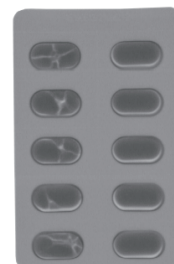
FLIES SERIES
Example Shooting

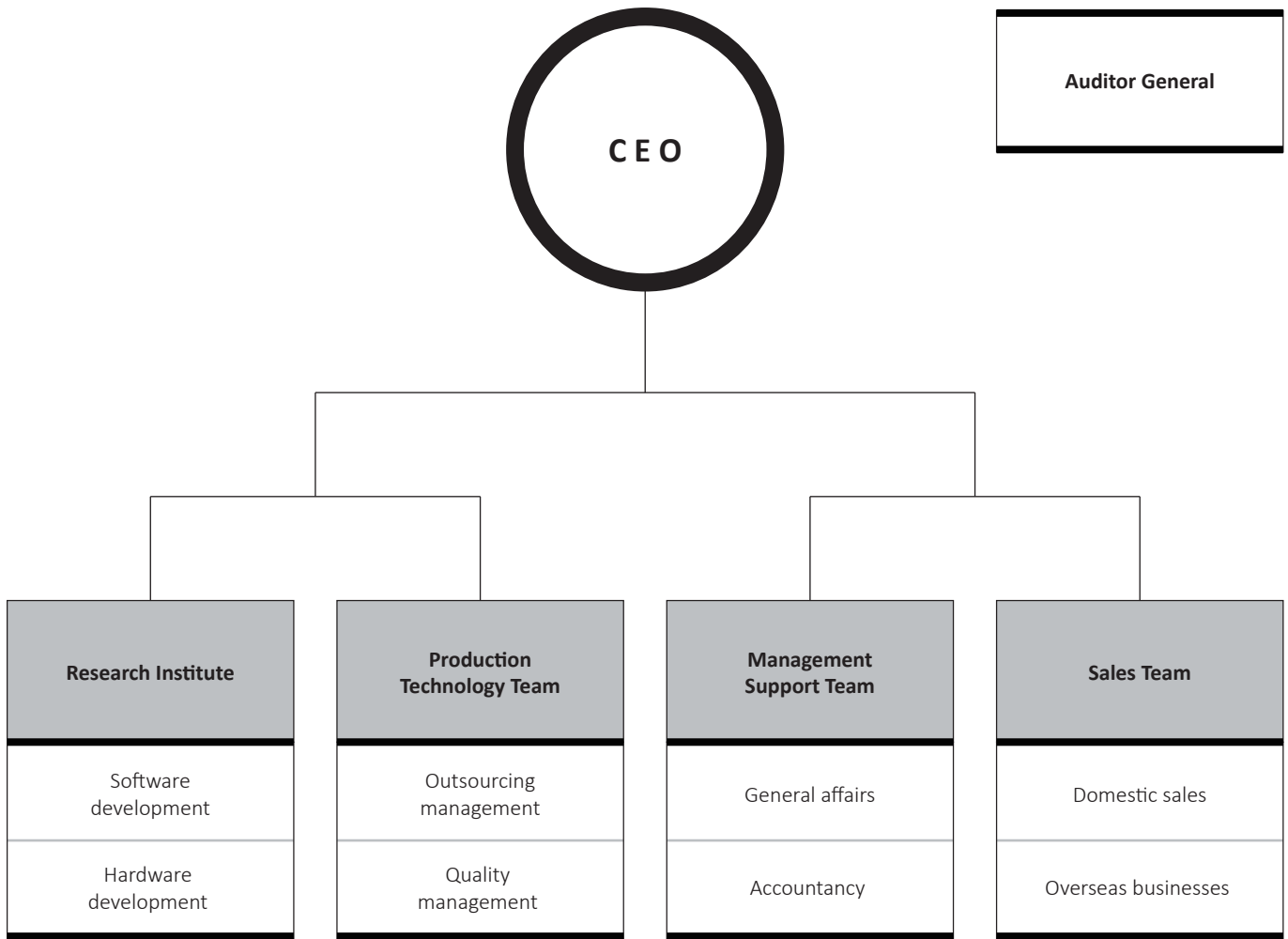


FLIES SERIES
Example Shooting



FLIES SERIES
Example Shooting



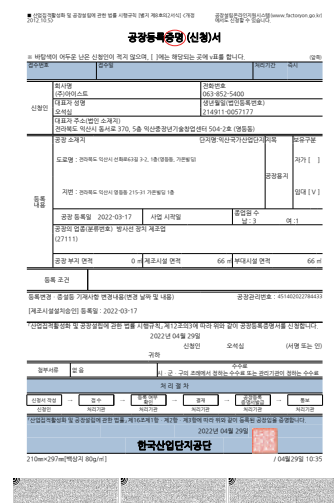


AiST tech Inc. has a separate research institute and a factory that produces products, enabling immediate response to customer requests.

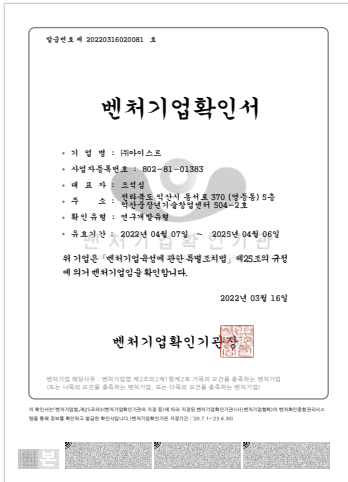
In addition, **the research institute** is striving to protect intellectual property rights by applying for patents relates to core technologies such as free integration control technology and multi- point calibration.



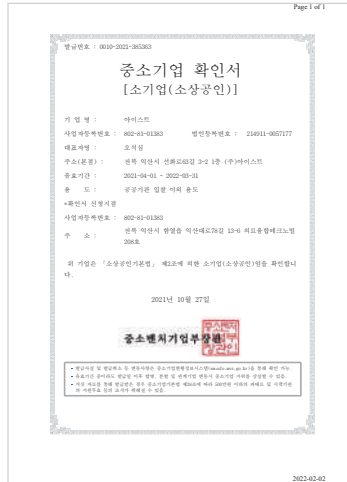
Corporate research
institute accreditation



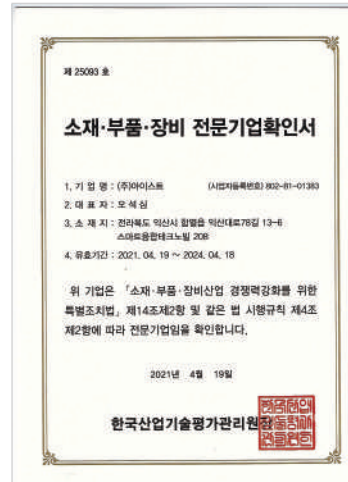
Factory registration
certificate



Venture company
confirmation



Business
confirmation



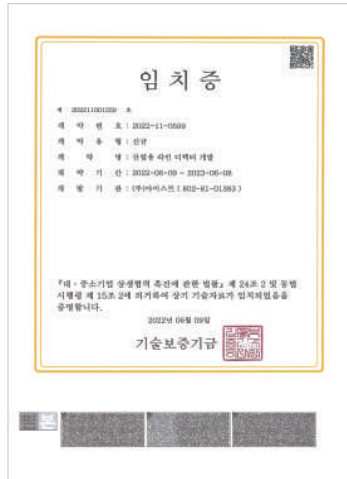
Material-part-equipment
specialized company confirmation



Corporate research
institute accreditation



Patent



Technology entrustment

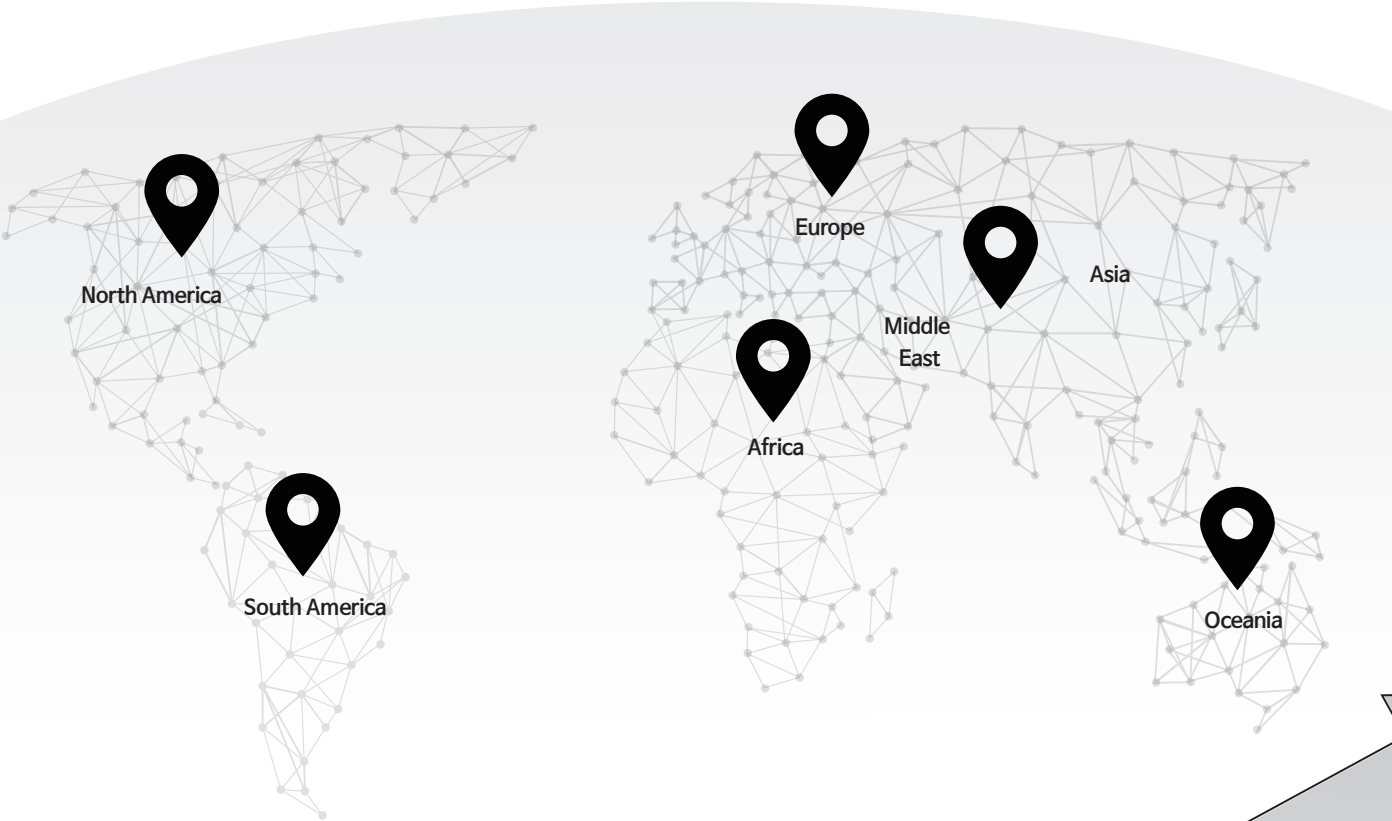


Patent



Technology entrustment

In addition, company owns a number of copyrights, and has successfully participated in several government-supported projects.



Sales countries : USA, UK, Germany, Italy, China, India, Philippines, Indonesia, Malaysia, etc.



YEAR	2021	2022	2024	2026
Workforce	5PPL(HW, SW, MC)	7PPL (SW, MF, SAL)	20PPL (SW, MF, SAL)	50PPL (Market expension)
Procesing plan	Single Detector mass production	TDI Detector development	ROIC, Sensor Localizaion DP	For Dental Detector DP



Using the sales networks of ‘Win Systems Inc.’ and ‘Bontech Inc.’, which have signed agency contracts, we are expanding our products not only in Korean but also around the world by selling out products in various overseas regions such as Aisa, Europe, and the Middle East.



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