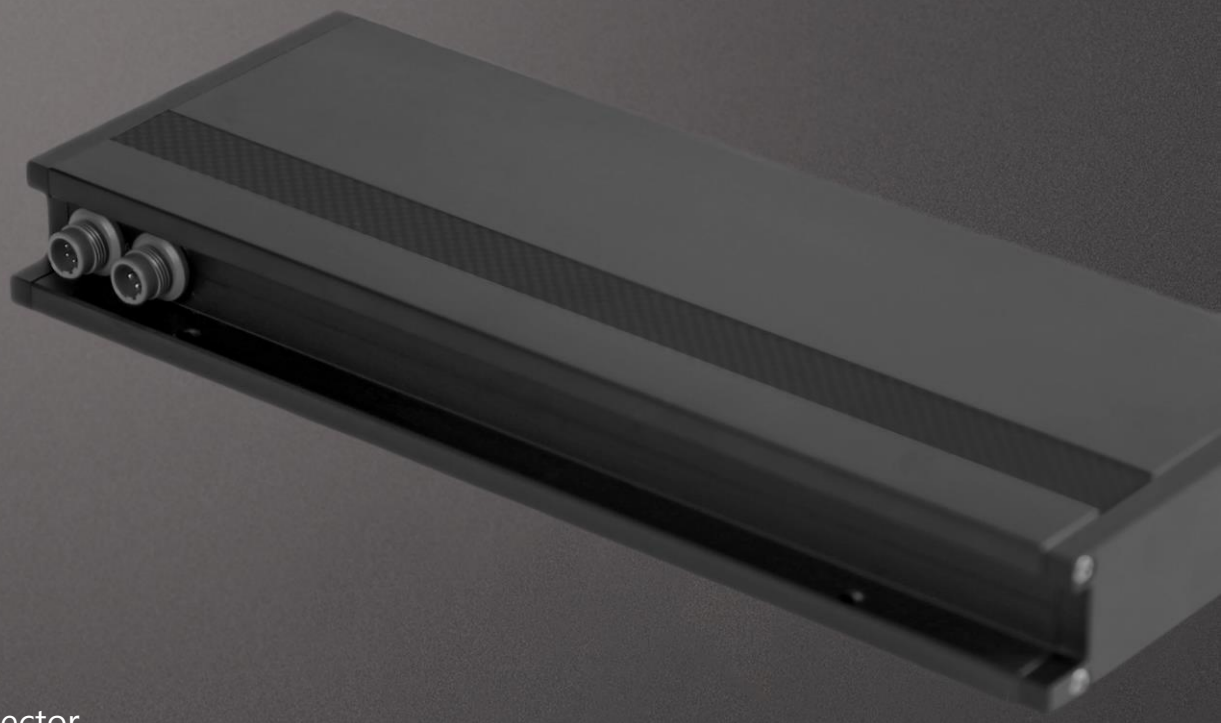
X-ray Line Detector

FLIES C SERIES

- X-ray line detector that provides high-sensitivity, high-resolution X-ray images.
- Fast scan speed, minimal noise, intuitive image processing program.

AiST TECH inc.
Sensor Technology



X-ray Line Detector

FLIES C series

Various product lines with high resolution

FLIES C series is an X-ray detector that captures high-sensitivity, high-resolution X-ray images without material damage. Therefore, it can be used for a variety of products such as food, pharmaceuticals and electronic components.

Faster and more

FLIES C series can scan many products in shorter time, with faster scanning speed, minimized noise with high transmittance.

Easy and simple

FLIES C series' software provides a variety of functions to easily analyze the image or data from the X-ray detector. The software can correct errors in acquired data by X-ray detector and performance can be maintained.

Intuitive User Interface

User accessibility has been improved by providing an intuitive UI that allows you to grasp functions at a glance.

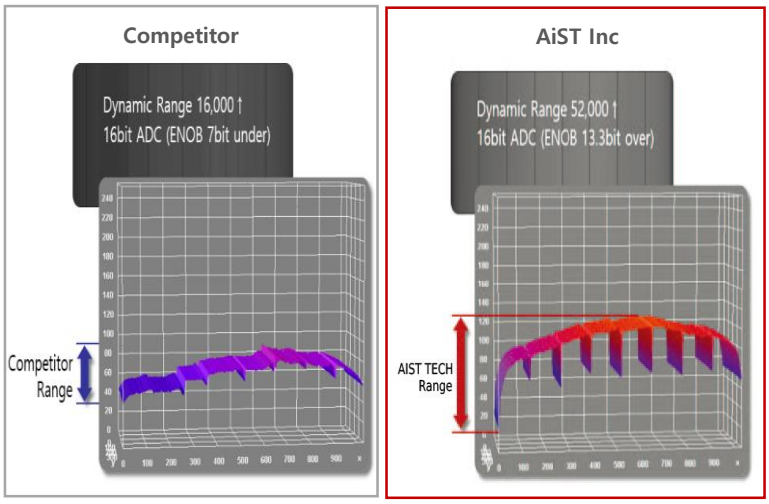
High compatibility

Standard SDK is provided for easy compatibility with third-party products.

Fast scan Speed

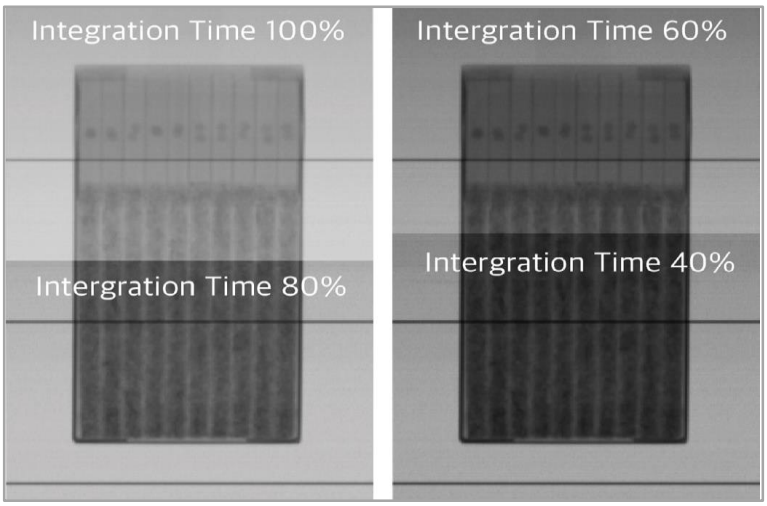
Product processes can be more productive at speeds of up to 200m/min.

Product Specification of FLIES C



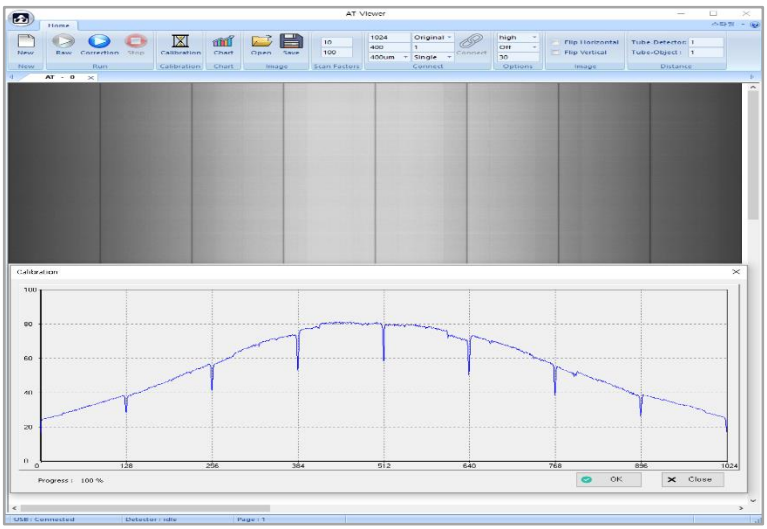
Dynamic Range

Due to the image is expressed in a wider range of gray levels, each substance is accurately identified, even if substances of different densities are mixed within the subject.



Integration Time Control

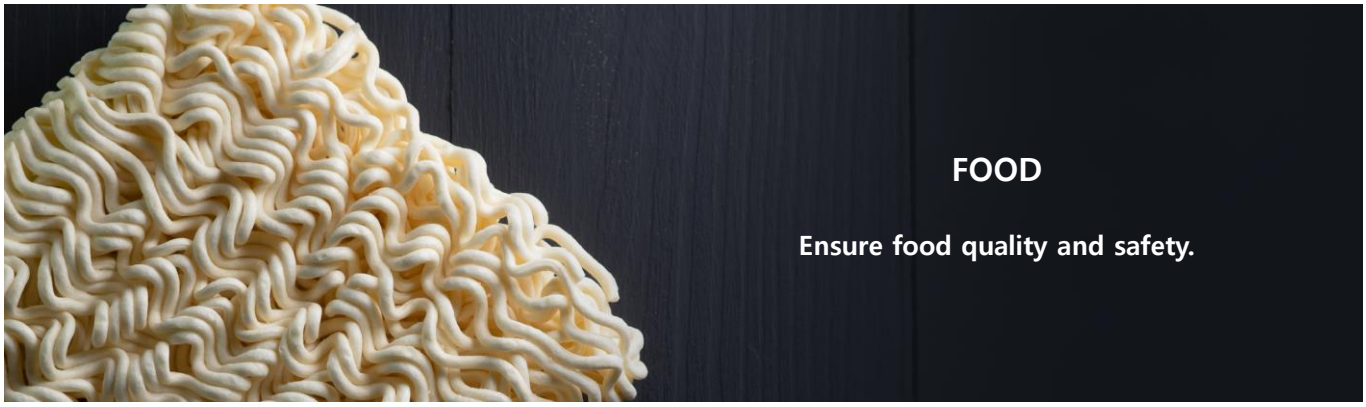
Integration Time can be adjusted independently. Changes can be made immediately without having to stop shooting, and the changed settings are immediately reflected during shooting so that you can check them.
Since the integration time is independently controlled in the program, it is automatically performed even during calibration without having to manually restart the X-ray source.



Calibration

High quality images are guaranteed by 256 stages of calibration. It also improves user convenience by exemption of waiting time or re-starting the program.

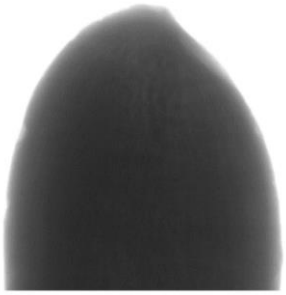
Application of FLIES C



Detectors are widely used in the processed food industry for quality inspection and product safety. Excellent detection of foreign substances such as glass, iron, stone, rubber, bone, and plastic. Inspection can also be performed on products packaged in glass bottles and cans, and all kinds of foreign matter are meticulously detected, both in single packaged products as well as in bulk products. You can perform a variety of tasks, such as identifying missing or damaged components, counting items, and more.

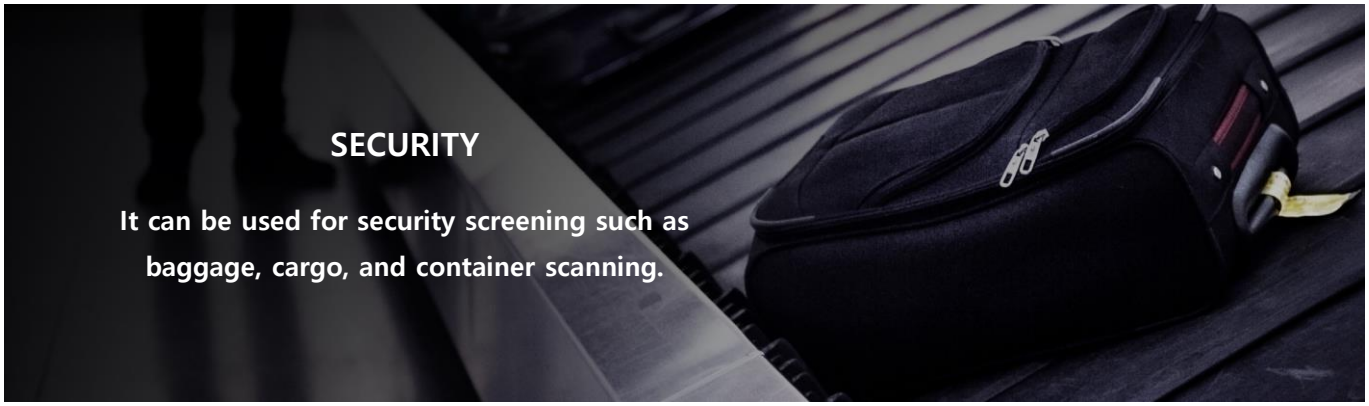
It is possible to inspect the product packaged in the form of a reel and then, you can inspect the number of parts and omissions. It counts reels of various sizes at high speed without damage or loss of the product.

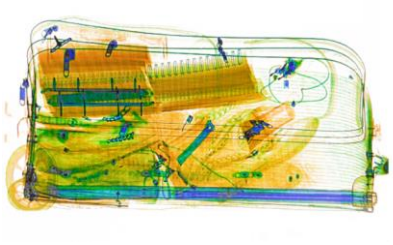
Normal radish

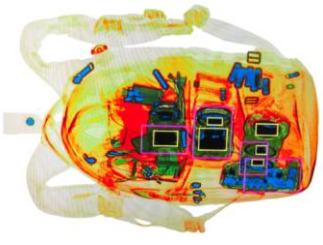


Radish with tissue abnormalities

It can be used for quality inspection and sorting by inspecting the internal structure of agricultural products. According to the user's environment, agricultural products can be classified by size, or by detecting abnormalities in internal tissues. Depending on the user environment, it is also possible to determine the density of agricultural products through the pseudo color technique.







The international standard X-ray detector can detect dangerous factors such as livestock products, explosives, and knives that are difficult to carry in and out of Korea without opening a bag or coat.

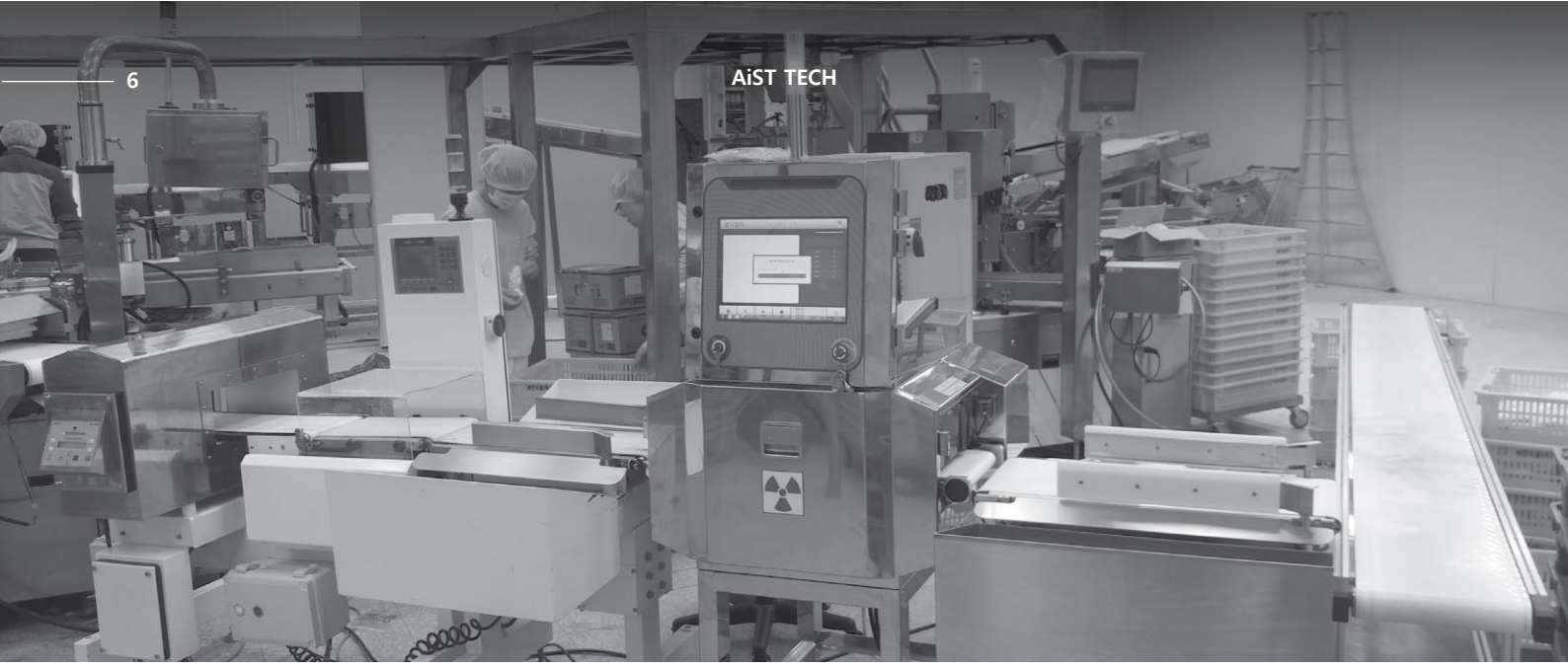
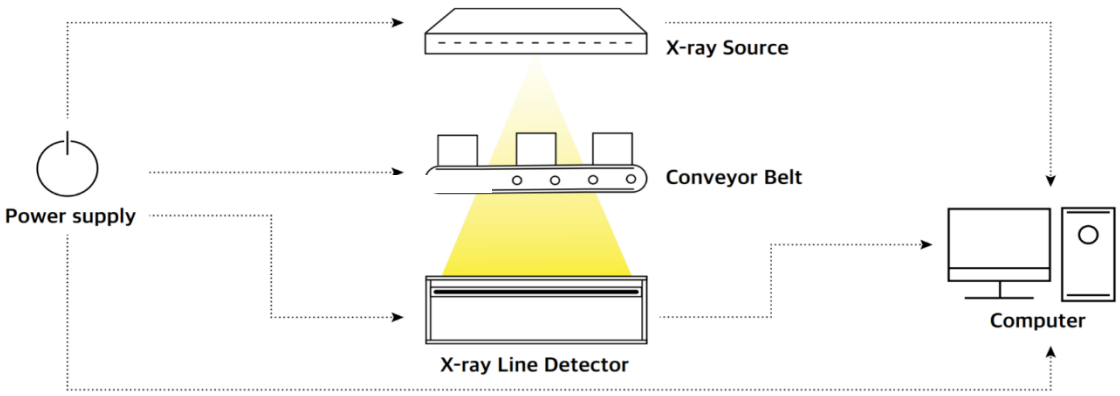
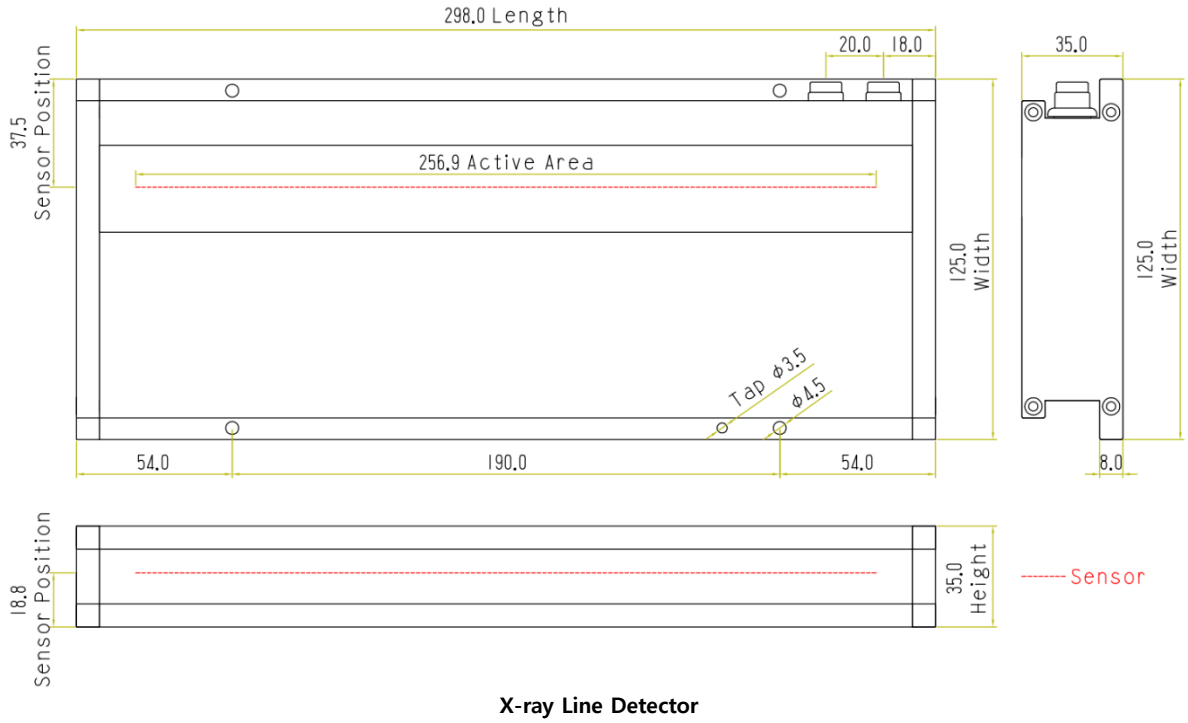


Diagram of Structure



Sensor Position



X-ray Line Detector

Product Specifications

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	16 bits (ENOB 13.3bits)		
Dynamic Range	52,000 more		
Scan Speed(m/min)	2~200		
IP Code	IPx6		
Operating Temperature(℃)	0 ~ +40		
Storage Temperature(℃)	-10 ~ +50		
Operating Humidity(%)	30 ~ 80		
Interface	USB 2.0 / 3.0(Optional)		
Power Supply	DC 12V		
Length(mm)	298	453	658
Width(mm)	125		
Height(mm)	35		
Weight(kg)	2.1	3.4	5.2
Software	Windows 7/10 (x86/x64), SDK Microsoft Visual C++		
Calibration	Multi-Point		
Image Format	RAW Image(16bits, tiff, csv), CAL Image (8/16bits, tiff)		
Image Packet	Line/Frame		

Connection for our clients

Broader, Faster

AiST TECH inc.
Sensor Technology

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