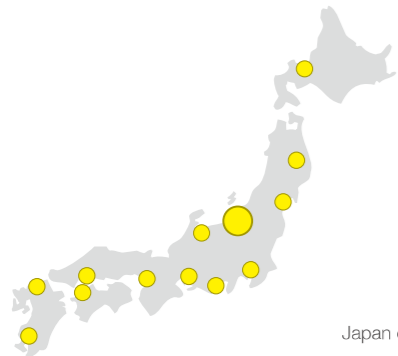


Agents



Japan office

For more information, contact our office listed below.  
The contents of the specifications are subject to change without prior notice due to continual improvement.



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**NEW** Inspection coil

# MetaHawk3 PLUS

nondestructive inspection system

## METAL DETECTOR

1. Strengthened resistance to a harmful outside noise  
New adoption to the coil of all models
2. Installation of new inspection "E mode" to the all models as a standard function  
Improvement of "practical sensitivity"
3. Not to decrease inspection accuracy Balance measure

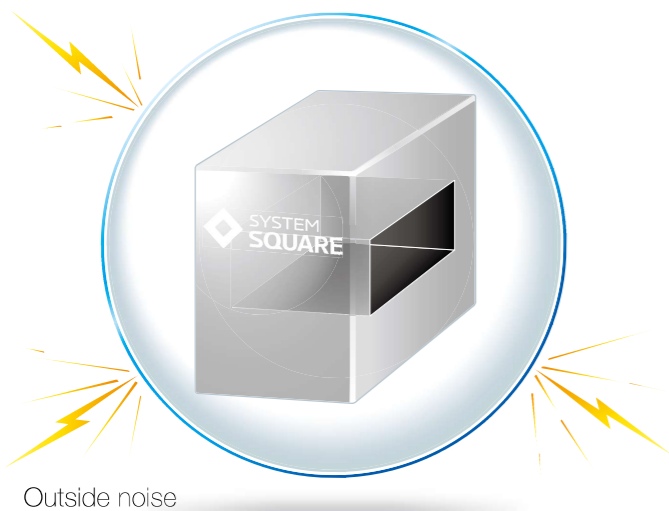
**SYSTEM SQUARE INC.**

# Contribution for reducing product loss by stable device operation

Reducing food loss



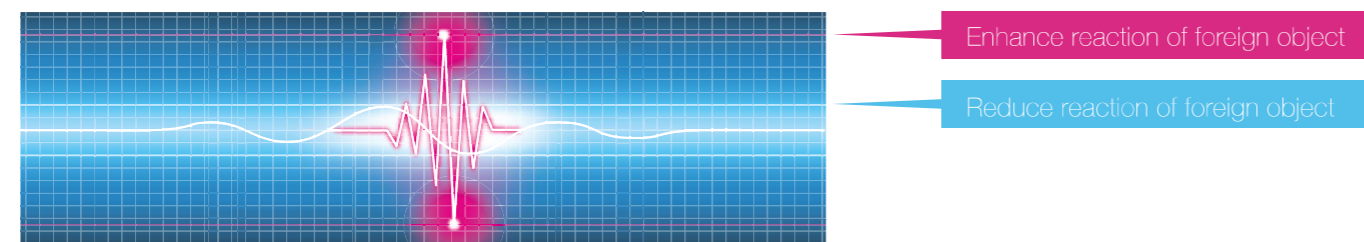
## 1. Strengthened resistance to a harmful outside noise New adoption to the coil of all models



Metal detector uses very sensitive and delicate sensor to react sensitively to the very small foreign object. Therefore, it is easy to get influence of outside vibration or noise, and malfunction risk increases more and more when device is used with high sensitivity setting. The new developed coil took various measures still more to interrupt a harmful noise from the outside. We radically reviewed influence of the static electricity, distortion comes from an environmental temperature change, and the most suitable processing of the noise that cables emit, then, realized operation with high sensitivity and high stability. It contributes to **reduce food loss** caused by malfunction.

## 2. Installation of new inspection "E mode" to the all models as a standard function

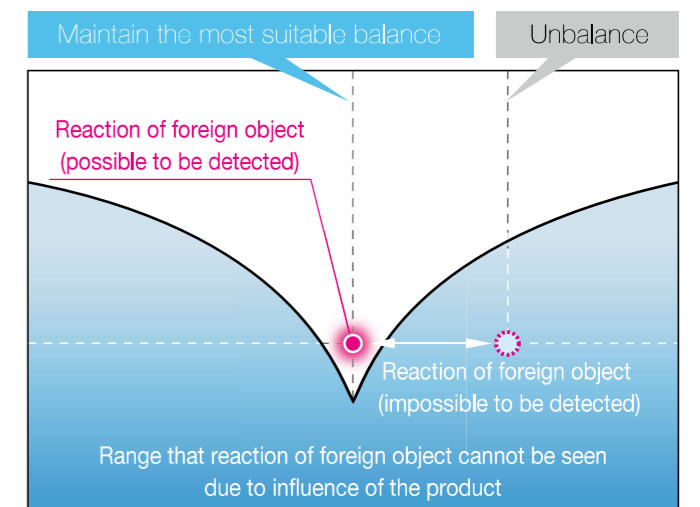
Products to be inspected also affect to the sensor of metal detector. High accurate technology to separate "Influence of product" and "Influence of foreign object" is important to improve sensitivity under the real use situation (practical sensitivity). <E mode> inspection by new algorithm uses original digital signal processing technology effectively and amplifies reaction of foreign object to detect small foreign object easier as well as decrease influence of the product. It is especially effective to the products that have strong influence of product such as the food that water and a lot of salt are contained (Pickles, ham, sausage, bean paste, etc.).



## 3. Not to decrease inspection accuracy Balance measure (Option) Patent pending

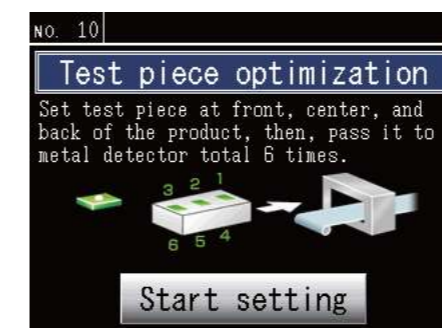
Metal detector detects foreign object by the most suitable balance at the point that the influence of the product to be inspected is the smallest. In the case of conventional model, unbalance may be caused by temperature change of the installation place or by degradation over time. However, this new model adjusts balance automatically and enables to operate stably for long term.

Conventional model	This new model
Inspection accuracy decreases little by little	→ It maintains high accuracy automatically
Balance adjustment cost occurs	→ It reduces balance adjustment cost
Decrease of inspection quality	→ It maintains inspection quality certainly



## 4. Test piece optimization setting

Metal detector sets sensitivity automatically to optimize the balance between detection sensitivity of target test piece and stable inspection. It prevents frequent malfunction caused by excessive high sensitivity setting.



Example of setting screen

## 5. The pursuit of high sensitivity and stability

Metal detector has difference in foreign object detection sensitivity between test piece sensitivity on catalog when only test piece passes and real sensitivity when product to be inspected passes. SYSTEM SQUARE metal detector shows high ability in the latter situation. Please request free sample test for more details.

