Inspection system for the peach fruit moth



Achieve 100% detection rate and 100% quality maintenance

It had been impossible to detect fruit damaged by the peach fruit moth by visual inspection. Our new technology makes 100% automatic detection possible with image processing and recognition of the fruit using X-ray images from multiple directions. Moreover, we have developed a technique for handling soft and fragile fruit.

This is not just the development of a technology. It will also dramatically advance the traditional inspection system.

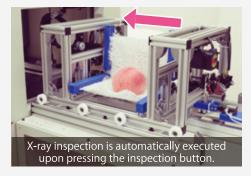
This breakthrough can lead to the promotion of our export market by enhancing consumer confidence in Japanese agriculture.



For stimulation and export promotion of Japanese agriculture

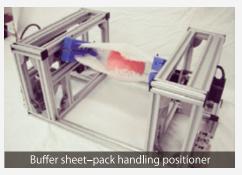






Speed up by automatic inspection

We established an automatic inspection technology for detecting foreign objects within natural objects, which is not possible with visual inspection. It eliminates our current reliance on inefficient manual operations, and will halve inspection time. It can further improve the profitability of farmers because the false positive rate is less than 20%.



The fragile object is gently wrapped

Peaches are perishable, soft and very delicate fruits that are destroyed and rendered commercially inviable by manual pressure. There has been no technology able to handle fragile objects. The establishment of a technology for handling fragile objects has made it possible to run the necessary tests in a shorter time and more reliably than for manual inspection.

Note: Patent application for the buffer sheet is pending.



Dedicated touch-panel



Anyone can operate the technology easily because of the large-screen touch panel. It is also possible to check the data, such as the history of past damaged fruits, and the information can be managed in conjunction with the inspection system.

Example of the operation screen display





Yamanashi, connecting to the world

An increase in the export volume of peaches and the application of this technology to other fruits such as apples and pears will allow Japanese agricultural products to be exported to other countries such as China, Hong Kong, Europe and the United States.