



Spring 2024 HYTEM NEWS

IPPS (International Poultry & Pig Show), held at Port Messe in Nagoya on 24 through 26 last April, where around 23,000 visitors attended including the most of egg producers in Japan and some from China, Taiwan and other Asian countries.

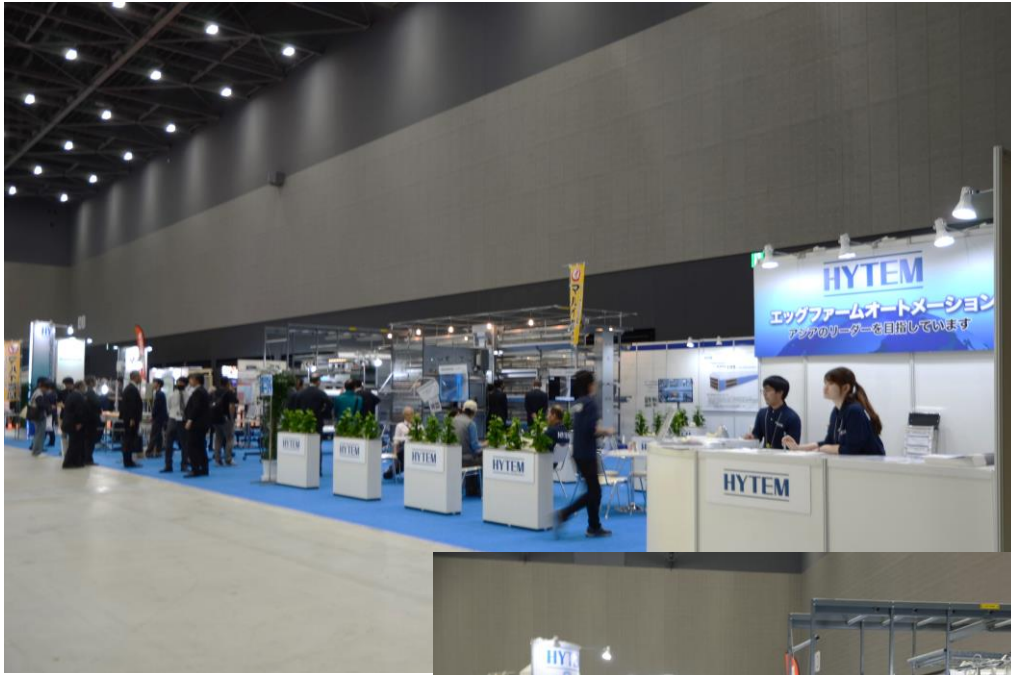
Reception of IPPS



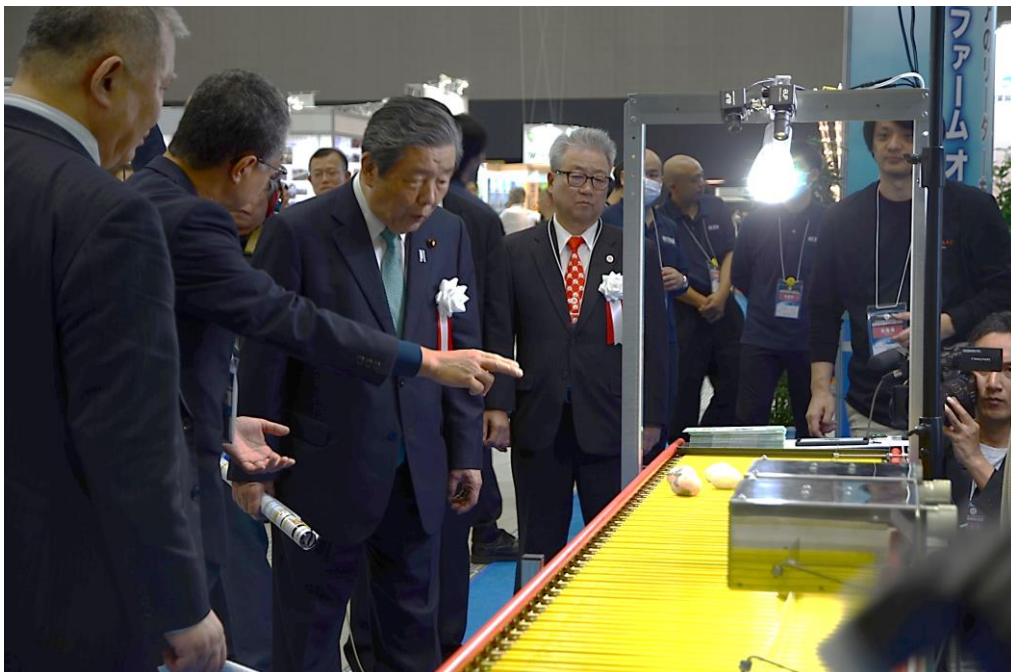
HYTEM Booth

This time, the reception where catalogues were handed over was located at the last end of the booth. The sign tower message is "HYTEM is targeting Leader of Egg Farm Automation in Asia".

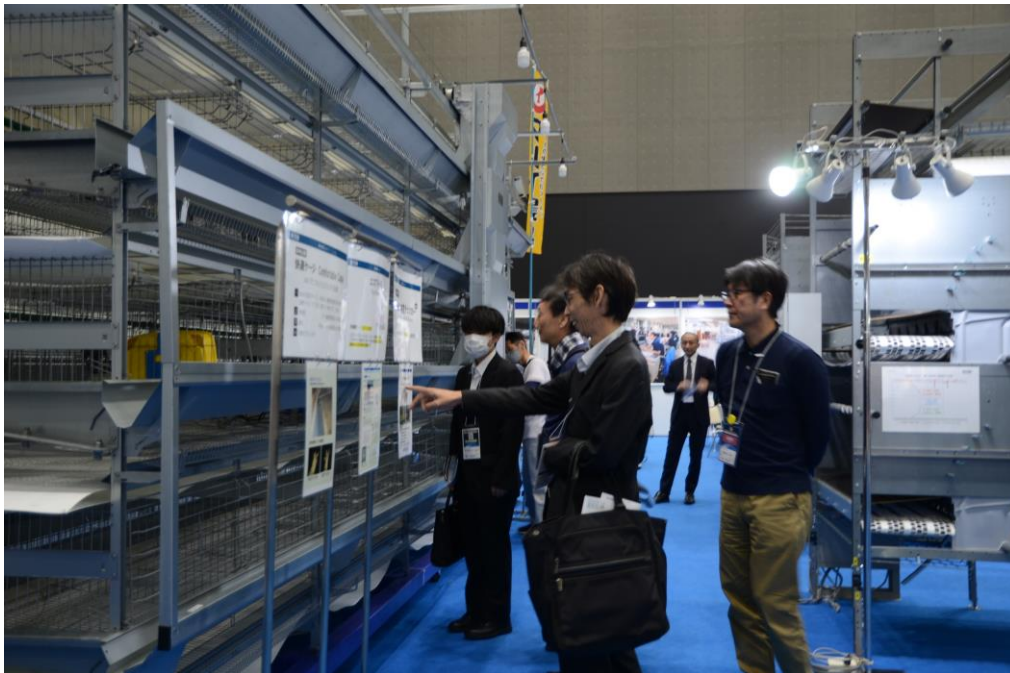




Mr. Moriyama, the chairman of IPPS organization and the former Agricultural minister had great interest in HYTEM EFA/Egg Farm Automation.



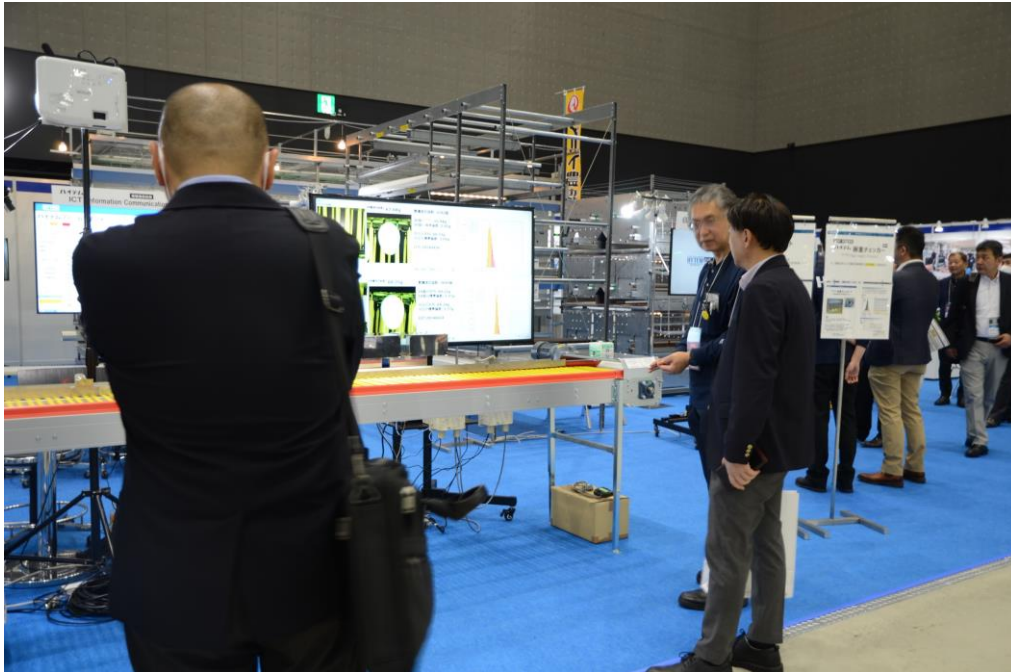
Cage unit exhibition



4 big screens to present " Rats Shutting out" " Manure Pre-drying including Plate Dryer and Soilborn/Future Fertilizer" "Ultimate Zero crack Egg Collector and Egg Flow Control" "Information & Communication Technology", and 3 screens to introduce "Feeder", "Manure Collector" "Dead bird Detector " were prepared.
With the screen control button, each presentation could be seen from the starting screen.



Egg Weight Checker had intensive attention for coming one step upgraded flock management(an updated catalogue attached), by which the egg size can be controlled in the optimum size for the market through the feed management basing upon the information of egg size distribution by Egg Weight Checker.



At the final day, a tour to HYTEM Exhibition Center which is located around 80 minutes driving distance from IPPS hall, where equipment not exhibited at IPPS booth such as Manure Conveyor Shutter, Rod Conveyor Shutter, Pullet Cages and Ventilation system, was programed.



HYTEM Egg Weight Checker ^{Patented}

— Egg Weight Measuring System by High Precision Image Processing —



Features

The egg weight measuring system has been developed through the industry-academia joint research with Aichi Institute of Technology. It uses the technique for processing still image of eggs that was developed in a research project of Aichi Institute of Technology and Aichi Agricultural Research.

- 1** *High precision image processing with AI automatically measures* weight of eggs being transported on egg conveyors.
- 2** It is possible to measure the weight of eggs by flock even *if eggs are collected from multiple houses.*
- 3** *Egg weight distribution data of each flock can be collected in daily basis,* which has been not possible by existing technology.
- 4** Daily egg weight information can establish better feed management, *contributing to maximizing Egg Farm Profit No.3* generated by Egg Farm Management

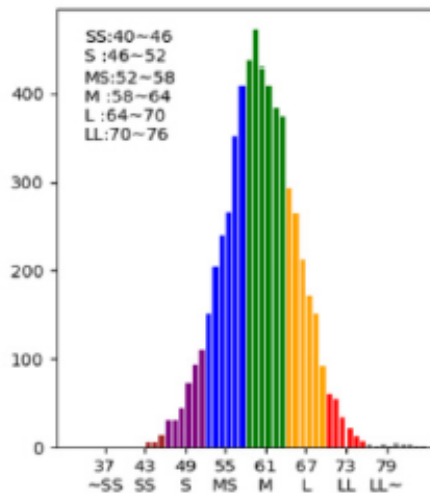
Measuring System

Egg weight is automatically calculated with the preset specific gravity (normally 1.10) by measuring the egg volume using AI-based precision image processing with a mean error within 1% and the maximum error of 1.5%.

* The egg weight with a higher accuracy will be given by periodically measuring the weight of a certain number of actual eggs.

【Measuring Example】

A Farm



HYTEM AI Checker 59.52g
Data by Grader at B Farm 59.83g
Difference -0.52%

B Farm

(Unit : g)

Date	※ HYTEM AI Checker	Actual	Difference
2023.3.31	64.97	64.90	0.11%
2023.3.30	64.95	64.90	0.08%
2023.3.29	64.56	64.80	-0.38%
2023.3.28	64.90	64.80	0.15%
2023.3.27	64.59	64.80	-0.33%
2023.3.26	64.69	64.80	-0.17%
2023.3.25	64.61	64.80	-0.30%
Average	64.75	64.83	-0.12%

※ Density measured during 2023.2.22-28 at A Farm was input

Specifications

Power: Single phase 100-220V 35W

Operating power: DC

Components: Camera unit Camera, Lights

Outer dimensions: Width 200 Depth 200 Height 305

Operation unit Edge PC, Power unit

Outer dimensions: Width 200 Depth 100 Height 300

Operation units need to be set up within five meters distance.

Please be advised that the specifications in the catalog are subject to change without notice.

HYTEM Egg Farm Automation Targeting Leader in Asia

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