

# UNDERWATER IMAGING SYSTEM.



## Underwater Imaging System UWC114AI – Key Features:

- § Real-time viewing of aquatic animals' activity levels
- § Real-time observation of feeding behavior
- § Monitoring leftover feed – assess feed quantity to detect possible oxygen deficiency or disease
- § Relative quantity observation – detect abnormal reductions indicating possible mortality
- § Integrated with dissolved oxygen sensors for immediate disease risk assessment
- § Data analysis software – select dates and generate trend curves
- § Instant AI-based measurement of aquatic animal size
- § Integration with smart control panels to manage automated feeding schedules
- § Observation of algae growth in addition to aquatic animals
- § Integration with above-water imaging to monitor the growth and health of softshell turtles
- § Commonly use shrimp feeding tray, startle shrimp and cause stress and increase mortalities rate
- § Unique development via Underwater imaging system:

Study Seagrass potential for enhancing carbon sequestration (blue carbon)

Seagrass beds are a vital source of blue carbon, capable of absorbing large amounts of CO<sub>2</sub> while serving as habitats, nurseries, and feeding grounds for thousands of marine species.

developing seagrass restoration techniques and plans to restore suitable marine areas.

Support Taiwan's net-zero carbon goal, enhance habitat diversity, boost biodiversity, and replenish fishery resources.



## MIC METER INDUSTRIAL COMPANY

ADDRESS: No.115 2ND STREET LONG-ZHEN NAN TUN DISTRICT TAICHUNG CITY TAIWAN

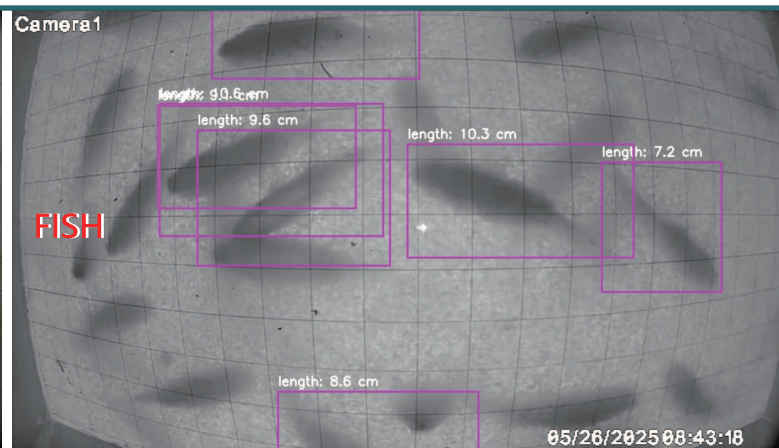
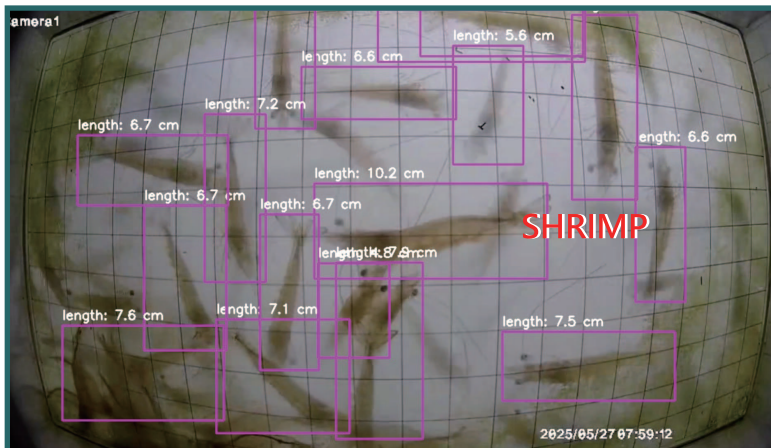
TEL: 886+4+23751881 [www.meterindco.com.tw](http://www.meterindco.com.tw) [wem@meterindco.com.tw](mailto:wem@meterindco.com.tw)

# UNDERWATER IMAGING SYSTEM.

## PATENTED INNOVATION

Utilizing high-resolution underwater imaging technology combined with AI training and deep learning, the system accurately measures the length of shrimp, soft-shelled turtles, or fish, and precisely evaluates their health status and activity levels.

A high-definition camera is mounted at the bottom of the device, and the internal chamber is free from any interfering medium to ensure clear image interpretation. The monitoring host connects to the network and power via a wired connection, allowing users to easily and clearly view real-time underwater biological activity on a smartphone or tablet.



AI Shrimp Monitoring System  
養殖水下攝影的監測系統

Language: English(English)

Download HISHARP

Logout

User: 112 Chiu\_ChiaYi

Underwater Imaging

Name Page

Current Page: Shrimp Detection

\*Time  
2025/08/06 1:25

Name  
Chiu\_ChiaYi

FeedingAmount

Remarks

Upload

AI Shrimp Monitoring System  
養殖水下攝影的監測系統

Language: English(English)

Download HISHARP

Logout

Detail

Home Page

Max Length of Shrimps: 8.5cm

Min Length of Shrimps: 4.7cm

Mean Length of Shrimps: 6.5cm

|   | <input type="checkbox"/> All        | Name        | Date             |
|---|-------------------------------------|-------------|------------------|
| + | <input checked="" type="checkbox"/> | Chiu_ChiaYi | 2025/08/06 13:08 |
| + | <input checked="" type="checkbox"/> | Chiu_ChiaYi | 2025/08/05 06:44 |
| + | <input checked="" type="checkbox"/> | Chiu_ChiaYi | 2025/08/04 10:50 |
| + | <input checked="" type="checkbox"/> | Chiu_ChiaYi | 2025/08/04 10:50 |
| + | <input checked="" type="checkbox"/> | Chiu_ChiaYi | 2025/07/15 15:50 |
| + | <input checked="" type="checkbox"/> | Chiu_ChiaYi | 2025/07/09 08:13 |
| + | <input checked="" type="checkbox"/> | Chiu_ChiaYi | 2025/06/22 08:55 |

Showing 1 to 7 of 7 entries

First Previous 1 Next Last

Line Chart of Shrimp

14:43

62%

|   |  |             |                  |     |
|---|--|-------------|------------------|-----|
|   |  | Chiu_ChiaYi | 2025/07/21 14:29 | 8.5 |
| + |  | Chiu_ChiaYi | 2025/07/15 15:50 | 7.4 |

Showing 1 to 7 of 7 entries

First

Previous

1

Next

Last

Line Chart of Shrimp

— Max (cm)

— Min (cm)

— Mean (cm)

— FeedingAmount

| Time        | Max (cm) | Min (cm) | Mean (cm) |
|-------------|----------|----------|-----------|
| 07/15 15:50 | 7.4      | 3.9      | 5.5       |
| 07/21 14:29 | 8.5      | 4.7      | 6.5       |
| 07/31 08:35 | 8.0      | 4.3      | 6.2       |
| 08/02 10:35 | 9.6      | 5.2      | 7.6       |
| 08/04 10:50 | 6.6      | 3.5      | 5.1       |
| 08/05 15:38 | 6.6      | 3.5      | 5.1       |
| 08/06 13:19 | 7.4      | 3.9      | 5.5       |