

# 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.



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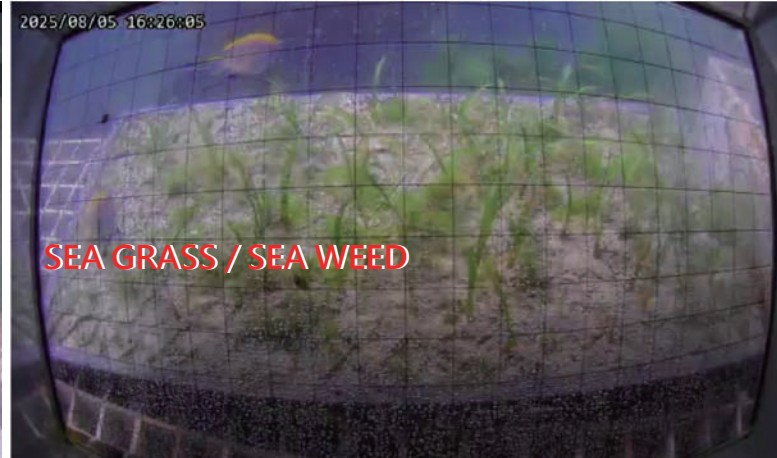
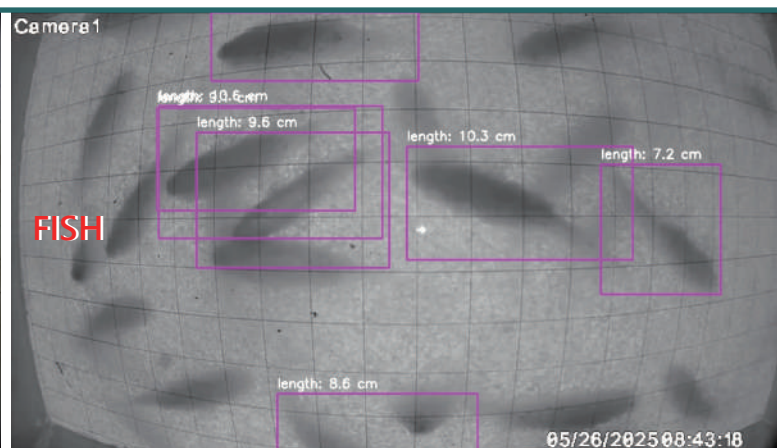
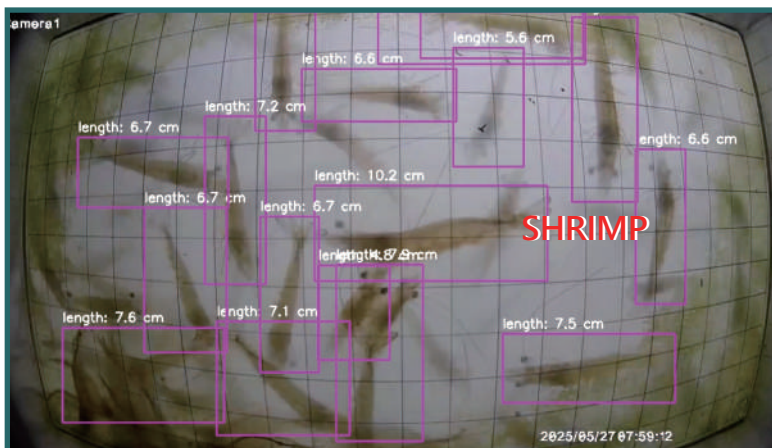
# UNDERWATER IMAGING SYSTEM.



| Item                   | Specification                 | Description                                       |
|------------------------|-------------------------------|---------------------------------------------------|
| Camera Resolution      | 1080p                         | High-definition video output (max. 4 ports)       |
| Waterproof Rating      | IP68                          | Suitable for underwater operation                 |
| Material               | RJ45 wire:15M                 | Anti-corrosion Stainless steel + reinforced glass |
| Illumination           | LED                           | Clear imaging at night/low light                  |
| Communication          | 4G                            | Optional communication modes                      |
| Power Supply           | AC 110-220V / DC 12V          |                                                   |
| Operating Temperature  | 0°C ~ +40°C                   | For indoor/outdoor and underwater use             |
| Weight                 |                               | Approx 16 kgs                                     |
| Dimensions             | Device                        | 64 mm(W) × 70 mm(L) × 40 mm(H)                    |
| On-premise storage     | Web app                       | Real-time & historical data access                |
| AI Features (Insights) | Size, activity, survival rate | Species recognition & behavior analysis           |



PATENTED INNOVATION



AI Shrimp Monitoring System  
蝦類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  
蝦類水下攝影的監測系統

Language: English(English)

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Logout

Detail

Home Page

Max Length of Shrimps: 8.5cm

Min Length of Shrimps: 4.7cm

Mean Length of Shrimps: 6.5cm

| ↑↓                          | ☑                                   | 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 |
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| +                           | <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        |                                     |             |                  |
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Chiu\_ChiaYi

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Chiu\_ChiaYi

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Showing 1 to 7 of 7 entries

First

Previous

1

Next

Last

Line Chart of Shrimp

— Max (cm)

— Min (cm)

— Mean (cm)

— FeedingAmount

10

9

8

7

6

5

4

3

07/15 15:50

07/21 14:29

07/31 08:35

08/02 10:35

08/04 10:50

08/05 15:38

08/06 13:19