AIoT FISHERY PRECISION FEEDING SYSTEM

智漁寶®

Vibration Sensing

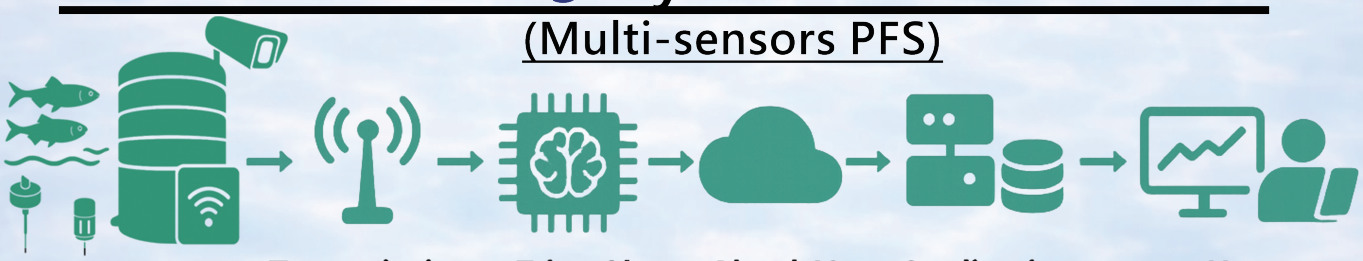
Multi-sensor AI recognition

Water Splash Identification

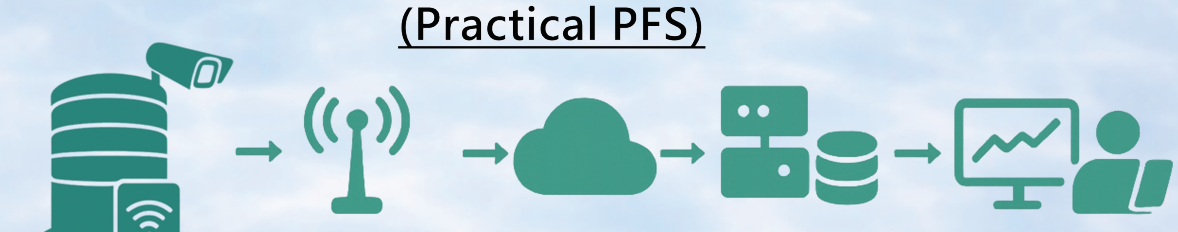
Basic IoT feeding system

(Precision Feeding) System Architecture

(Multi-sensors PFS)



(Practical PFS)



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 web@meterindco.com.tw

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AIoT FISHERY PRECISION FEEDING SYSTEM

The Precision Feeding System is designed for modern smart aquaculture, integrating weight sensing, remote control, and cloud-based data management for accurate feeding and real-time monitoring.
The system measures remaining feed weight using a load cell and automatically records feeding data, allowing farmers to track feed usage and inventory through a mobile APP or cloud platform. Scheduled or remote manual feeding can be easily managed anytime.
With optional IP camera monitoring, farmers can observe feeding behavior and pond conditions in real time. This system helps reduce feed waste, improve feed efficiency, minimize water pollution, and enhance overall aquaculture productivity.

AIoT FISHERY PRECISION FEEDING SYSTEM SPECIFICATION

Model	Precision Feeding System with Farming Records
Application	Indoor Agrivoltaic Aquaculture / Outdoor Fish Ponds
Feeding Modes	Scheduled Feeding / Remote Manual Feeding
Weighing Method	Load Cell–Based Precision Weighing
Feeding Capacity	Up to 120 kg per feed bin (configurable)
Data Recording	Feeding weight per event & daily total feeding amount
Display	Digital display showing remaining feed in real time
Monitoring	Camera integration supported for feeding observation
Communication	4G / Wi-Fi (site-dependent)
Power Supply	Outdoor: Solar power / Indoor: AC power
Cloud Platform	MIC Cloud for real-time data upload
Control Interface	Android / iOS mobile app
Main Unit Size	28 × 22 × 9 cm
Main Unit Weight	1.35 kg
Mounting Frame Material	Stainless Steel
Mounting Frame Size	750 × 750 mm
Mounting Frame Weight	17.5 kg
System Integration	Compatible with water quality monitoring systems
IP Camera	
Image Sensor	1/2.8" Progressive Scan CMOS Sensor
Lens	Focal Length: 3.9mm Aperture: F2.0 Field of View: 100° (Diagonal), 84° (Horizontal), 46° (Vertical)
Night Vision	850 nm IR LED (98 ft / 29.9 m)
Day/Night Switch	IR-Cut Filter with Auto-Switching
Lighting	2× Built-in Spotlights
Interface & Button	1× Ethernet Port 1× RESET Button 1× microSD Card Slot (Up to 512 GB)
Hub Compatibility	Not Supported
Audio Input & Output	Built-in Microphone and Speaker
Local Storage	microSD Card Slot on Camera (Up to 512 GB)
Cloud Storage	Tapo Care Cloud Storage Services (Subscription required)
AI Detection	• Motion Detection • Person Detection • Line-Crossing Detection
Network Connectivity	Connect via Wi-Fi or Ethernet
Wireless Connectivity	IEEE 802.11b/g/n, 2.4 GHz Wi-Fi

www.meterindco.com.tw web@meterindco.com.tw +886-4-23751881