



# RYNAN Spectro



## Convenient

Convenient way for shrimp farmers to measure water quality parameter



## User Friendly

Simple user-interface and requires minimal training for users



## Data Synchronization

Ability to sync measurement data of each pond to the cloud for historical tracking



# TOMGOXY



## Integrated Aquaculture Network

A complete shrimp farming management platform developed by RYNAN Technologies, that combines IoT monitoring devices, and cloud services with AI-driven data analytics for precision shrimp farming.

- ✓ Advanced farm design that offers high DO levels, cost-effectiveness, and sustainable solutions
- ✓ Integrated network of IoT devices that collect real-time water quality data
- ✓ Mobile software to sync and monitor all real-time data with AI algorithms to analyse trends, images, and process graphs.

**TOMGOXY** AVAILABLE ON CONNECT

GET IT ON Google Play

Download on the App Store

Wi-Fi and Bluetooth icons








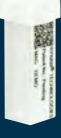




## FEATURES

- Compact and portable design
- Simple and easy to use user-interface that requires minimal training
- Analyze water quality parameters in water samples using a ranges of indicators
- Built with industrial communication standards
- Data synchronization and access historical data via TOMGOXY mobile app.

## SPECIFICATION

Size (L x W x H)	220 x 150 x 98 mm
Weight	2006.5 g
Communication	4G,Wifi, Bluetooth
User Interface	4.3 inch Touch screen
Barcode scan mode	Sensor mode
Light source	Tungsten Halogen lamp and UV LED
Wavelength range	340 - 850 nm
Measurement methods	Absorbance and Fluorescence
Photometric range	0 - 2.5 Absorbance or 0 - 2.3 Emission
Resolution	0.001
Notification	Beep, Screen Display
Material	Anodized Aluminium
Power supply	220VAC – 50Hz
Operating Environment	Temperature 5 - 55 °C, Humidity 15 - 90%

## INSTRUCTION OF USE CUVETTE INDICATOR

Substance	Testable range (ppm)	Wavelength (nm)	Colour
Nitrite (NO <sub>2</sub> )	0.08 - 2.65	0.08 - 2.65	
Nitrate (NO <sub>3</sub> )	1.25 - 38	1.25 - 38	
Phosphate (PO <sub>4</sub> <sup>3-</sup> )	0.14 - 2.0	0.14 - 2.0	
Ammonium (NH <sub>4</sub> <sup>+</sup> )	0.15 - 3.3	0.15 - 3.3	
Ammonia (NH <sub>3</sub> )	0 - 1.48	0 - 1.48	
Hydrogen Sulfide (H <sub>2</sub> S)	0.05 - 1.0	0.05 - 1.0	
Calcium (Ca <sup>2+</sup> )	30 - 300	30 - 300	
Magnesium (Mg <sup>2+</sup> )	150 - 1700	150 - 1700	
Potassium (K <sup>+</sup> )	0.1 - 37	0.1 - 37	
Iron (Fe <sup>2+</sup> /Fe <sup>3+</sup> )	0.55 - 13	0.55 - 13	
Turbidity (TSS)	30 - 530 NTU	NA	
Aglae (ALG)	1x10 <sup>3</sup> -2x10 <sup>6</sup> CFU/ml	NA	




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AGRIFOOD

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