

Analytical Instruments for Environmental Protection

HORIBA Advanced Techno, Co., Ltd Evoxy Seah

Company Overview of HORIBA Advanced Techno

Founded March 28, 1975

Capital 250 MJPY

Fiscal Year End December 31

Number of Employees 397 (R&D 112) *As of Jan 2024

Executive Chairman : Atsushi Horiba

President and CEO : Kentaro Nishikata

Senior Corporate Officer: Koichiro Kanaya

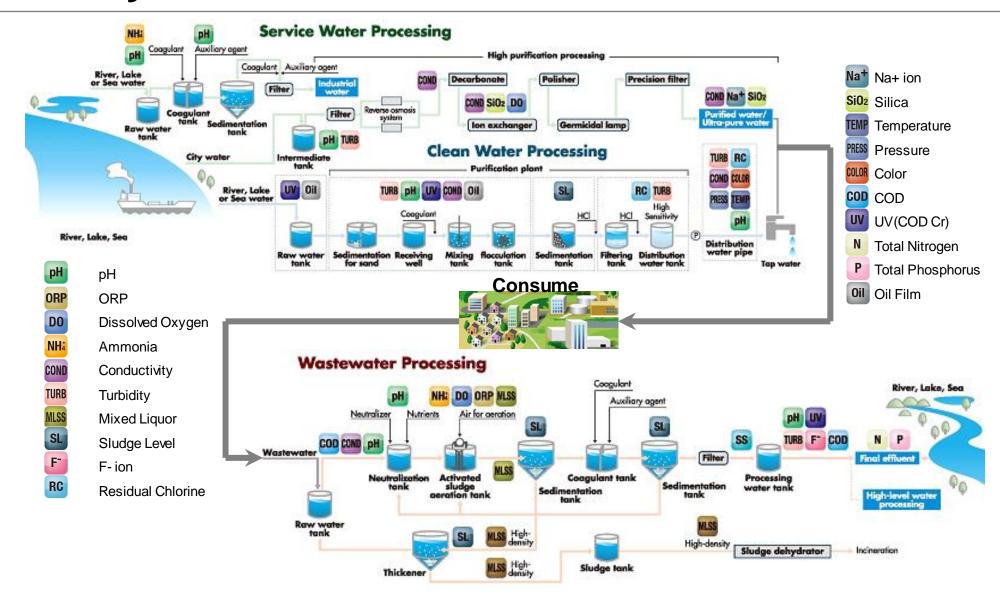
Corporate Officer : Masashi Nishimura

Line of Business

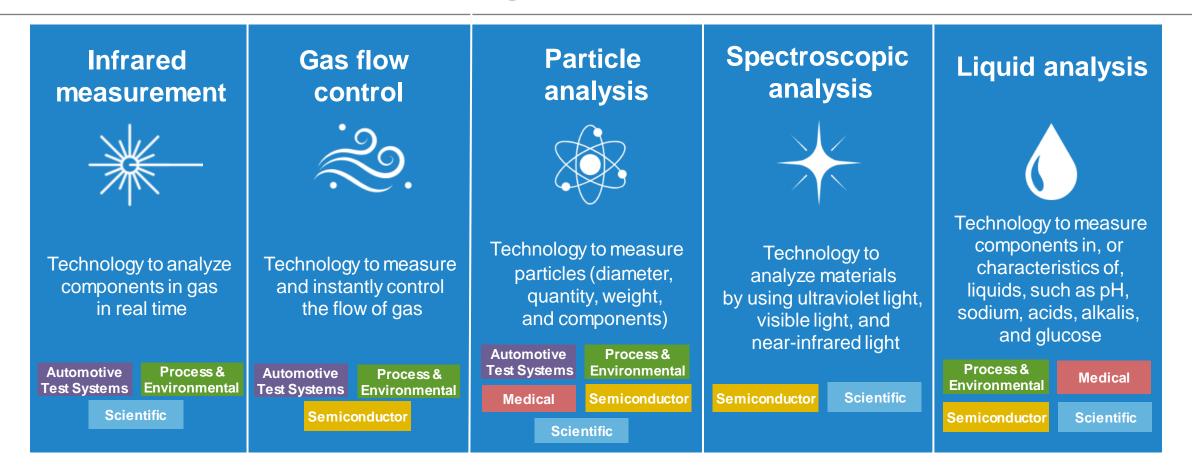
Development, manufacture and sale of the analytical instruments for laboratories and processes critical to such areas as water treatment, semiconductor, environment, agriculture, aquaculture, foodstuffs and bio/life science.



The Life Cycle of Water

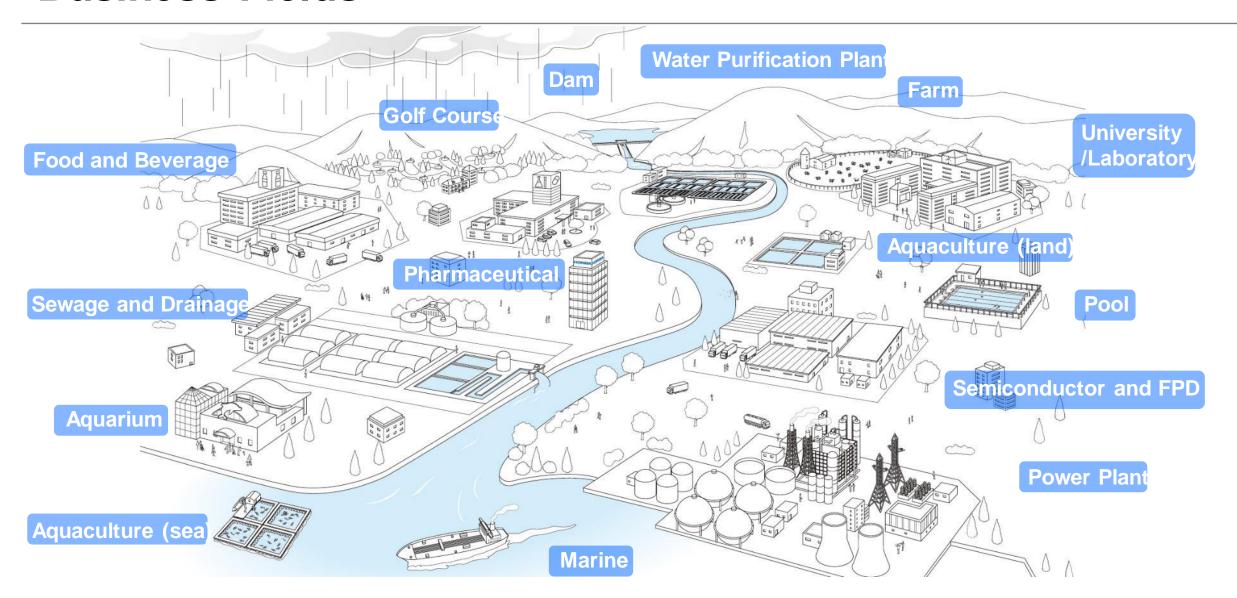


HORIBA's Core Technologies

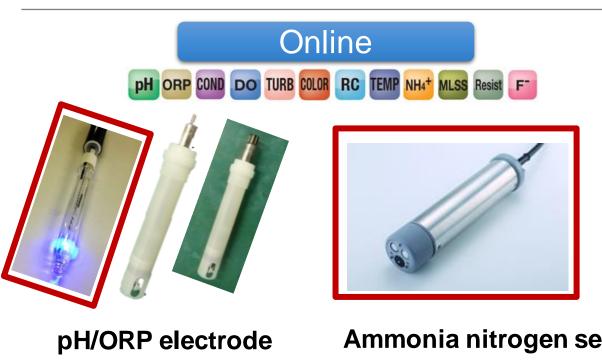


HORIBA allocates its development resources by focusing on specific analytical and measurement technologies, by leveraging our expertise, we are able to efficiently develop products addressing 5 different segments.

Business Fields



Water Quality Analyzers















UV sensor (TSS/COD/BOD conversion)

General product lineup

Drinking Water Application



TW-150 Turbidity meter pH meter Residual chlorine meter









Wastewater Application PH ORP COND DO TURB RC TEMP NH4+ MLSS Resist FT COD TPTN meter COD meter UV meter (COD)









Installation Examples

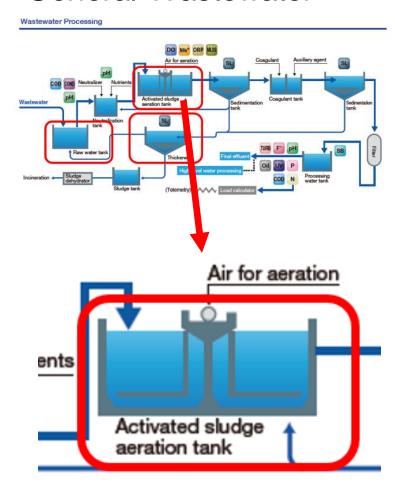






Self-cleaning pH electrode

General Wastewater



No maintenance required 3 months after installation achieved!

Regular pH Electrode



Self-cleaning pH Electrode #1



Self-cleaning pH Electrode #2



Maintenance Frequency

Before: Monthly cleaning and calibration

After: No maintenance even after more than 3 months

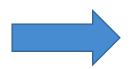
After 3 Months

Self-Cleaning electrode Conventional (6101)

① Discharge tank (inorganic)



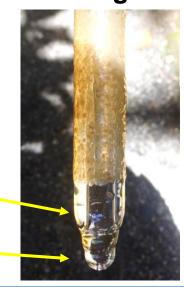
Biofilm Build up





Liquid junction

Glass membrane

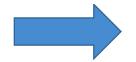


No Biofilm

② Food wastewater tank (Soybean extract)



Unusable



Maintenance Period

One day \rightarrow 7 days



After 7 Days With UV irradiation



After One Day

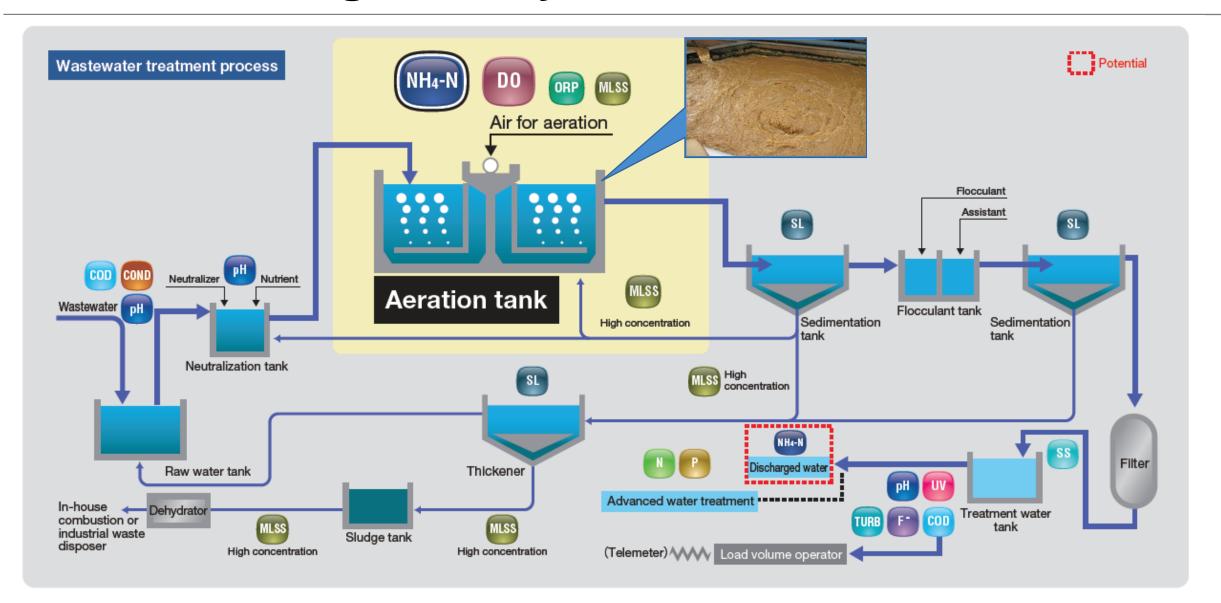
Liquid junction

Glass membrane



Still usable

Ammonia Nitrogen Analyzer



Ammonia Nitrogen Analyzer



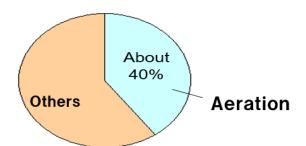
Saves electricity in aeration process due to

optimization of blower control.

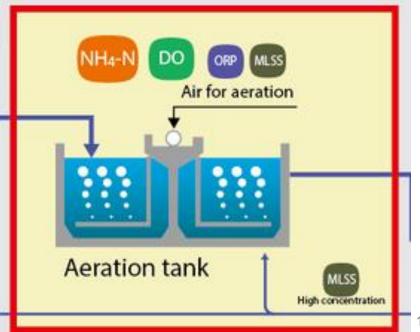




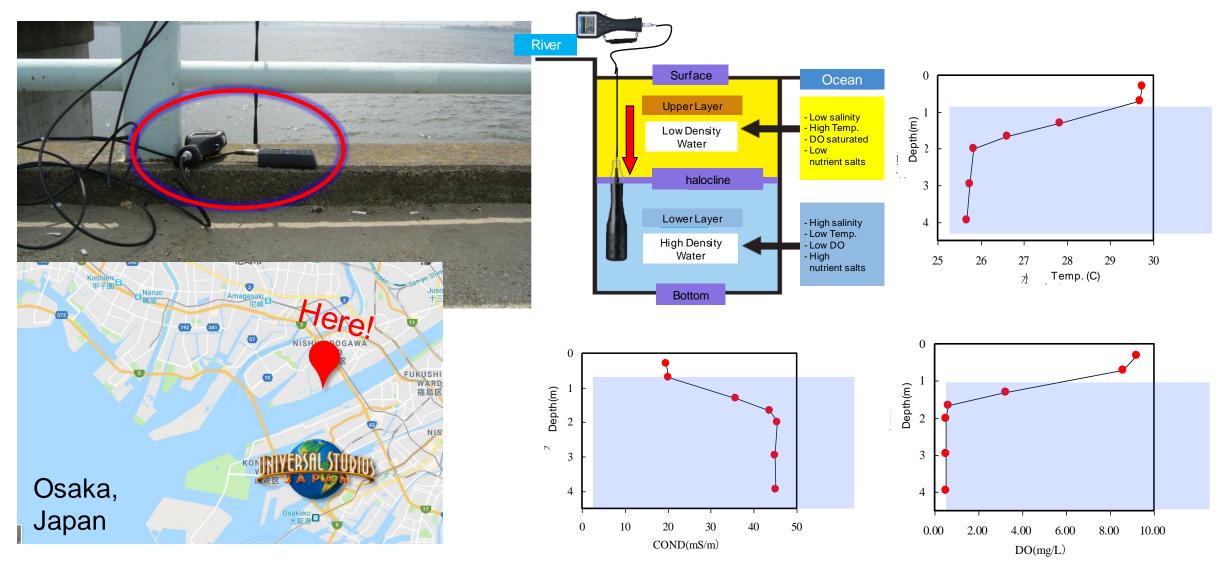




Rate of energy consumption in wastewater treatment plant (Rough estimate based on customer inquiry survey)



U-50 Series: Brackish Water Measurement



20 Configurations

Equipped with Turbidity sensor, one U-50 meter can satisfy the requirements for Environment /Ground water monitoring. Each model has choices of

cable length: 2m, 10m or

30m (Note: U-51 doesn't have 30m)

	U-51	U-52	U-52G	U-53	U-53G	U-54	U-54G	
pH								
ORP (Oxidation Reduction Potential)								
Dissolved Oxygen								
Conductivity								
Salinity								
TDS (Total Dissolved Solids)								
Seawater Specific Gravity								
Temperature		•				•		
Turbidity (LED)			•		_			
Turbidity (Tungsten lamp)	_	_	_			<u> </u>	_	
Water depth		_		•		•*	•*	
GPS	_	_		_				
Note: *U-54/G(2m) don't have the feature of water depth.				US EPA method			EN ISO 7027	

180.1



