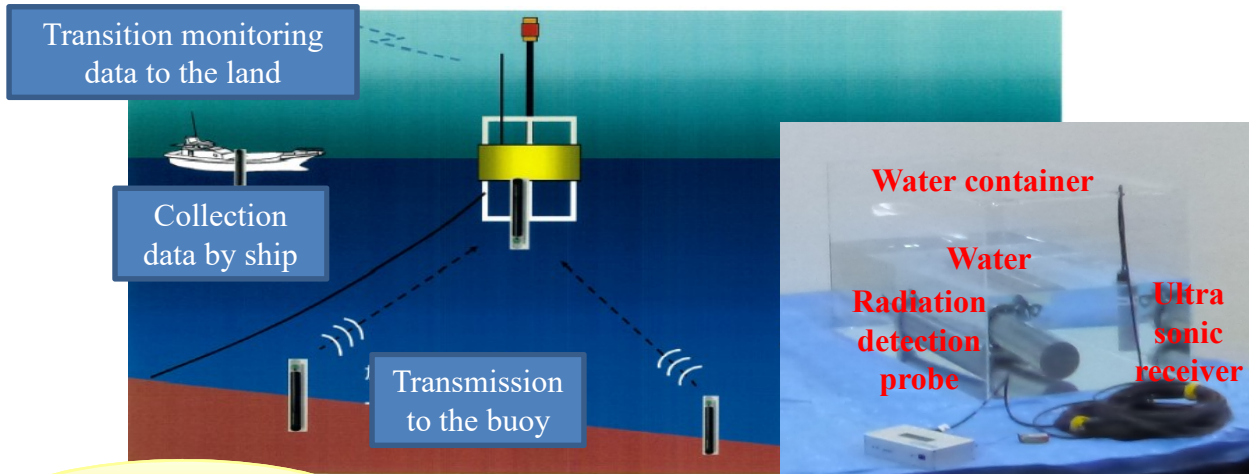


# Wireless radiation measuring system at deep under water

## S004

### Wireless ultrasonic transmission method enables simultaneous and multichannel radiation measurement in deep and wide sea/water area.



#### Product outline

Operating system

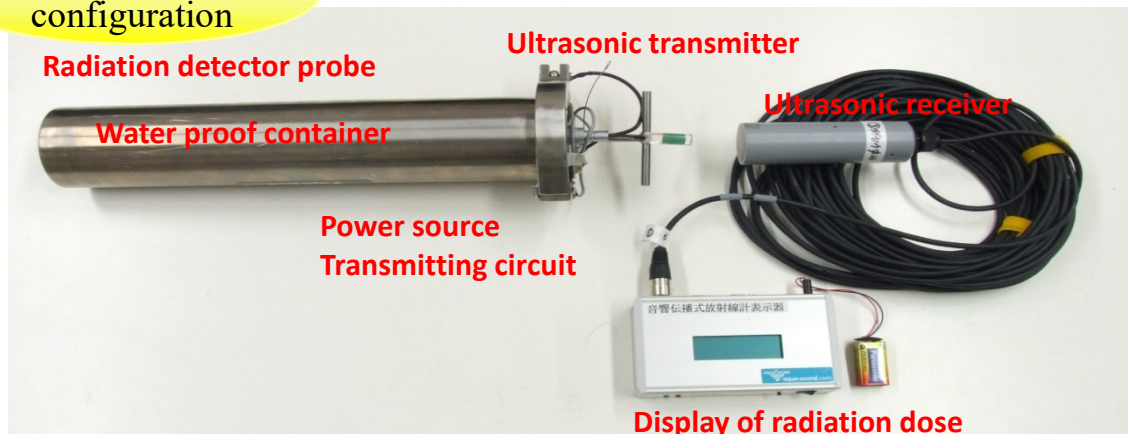
Demonstration in a test tank

- Wide area measurement, 300m depth, 500m communication range.
- Underwater wireless ultrasonic transmission method enables simultaneous and multichannel radiation measurement by data coding.
- Miniaturization by ultrasonic transmitter using advanced technology.
- We provide remote sensing service without any interference. It can send or receive data.
- High performance scintillator and high sensitive optical sensor enables highly precise measurement.

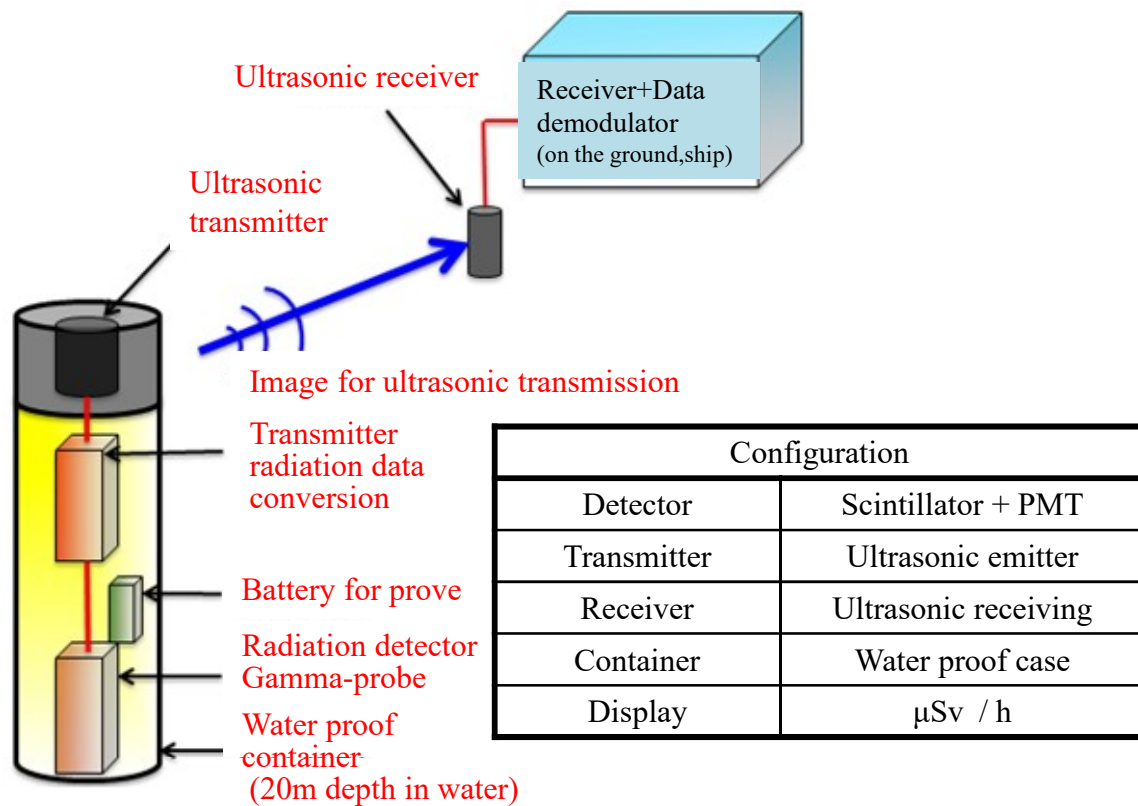
#### Application

- Real-time radiation dose distribution system in the sea, river, lake.
- Underwater monitoring system

#### System configuration



## Configuration



## Specifications

Detector	Energy resolution	$20 \text{ keV} \sim 100 \text{ keV}$
	Sensitivity	$8000 \text{ cpm} / \mu\text{Sv}$
	Display	$\mu\text{Sv} / \text{h}$
Specification of system communication	Transmission method	Wireless ultrasonic transmission method
	Distance	$\sim 20 \text{ km}$
	Depth	$\sim 300 \text{ m}$
Display	Dose rate	$\mu\text{Sv} / \text{h}$
	Movement averaging method	10 sec. sampling rate
Maximum transmission port		20 port by multiplexing