Field Data Transmission Service

SESAME

Sensory Data Transmission Service Assisted by Midori Engineering

Field data in your hands
Anytime, anywhere

A simple, maintenance-efficient solution for
Continuous field data monitoring

Field Data Transmission Service

SESAME

SESAME provides simple, maintenance-efficient solutions for...

Global Environmental Problems

by automatically collecting environmental data (temperature, precipitation, groundwater level, etc.) from domestic and overseas monitoring sites.

Weather Hazards Prevention

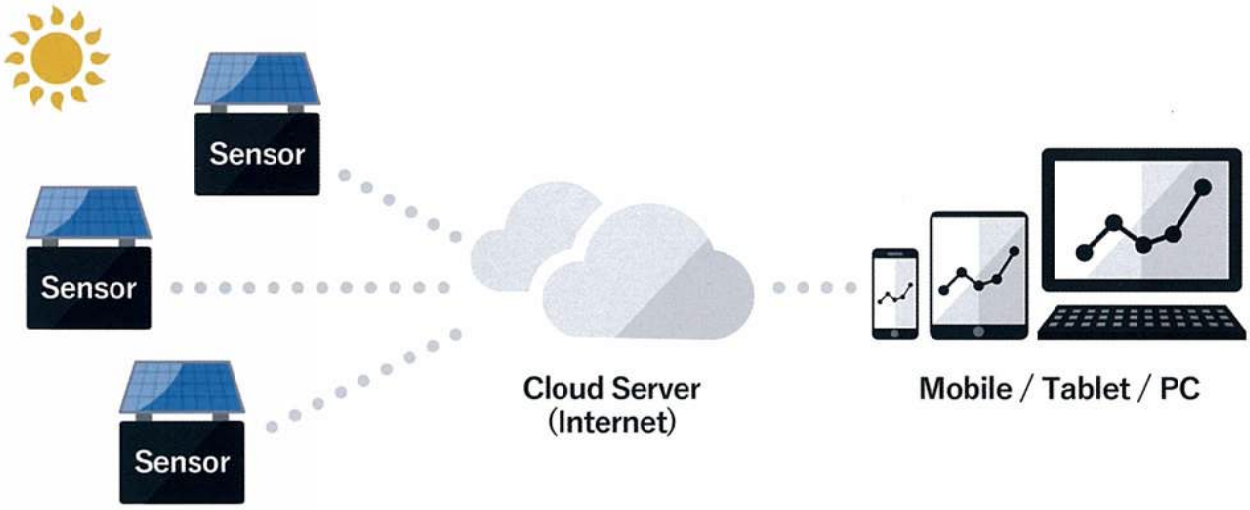
by emergently showing current situation in the upstream area (river water level, rainfall, wind direction and velocity, etc.).

Advanced Agriculture Promotion

by concurrently monitoring field conditions (air temperature, relative humidity, soil moisture, etc.) and growing conditions of crops (by photos).

Measure it,
Report it,
Use it.

SESAME is a Field Data Transmission Service, which records field data measured with various sensors, transmits the data to a cloud server via mobile phone network, and provides the data to the users via a web-based data manager.



Five Major Advantages of SESAME

Real-time monitoring of remote field data

- A built-in 3G modem
- Periodic data transmission
- Seeing is believing—camera image
- Alert by e-mail

Flexible to various situations

- Adaptive to various sensors
- Driven by solar cell and rechargeable battery
- Domestic and overseas mobile phone network available
- CSV file for analysis on a local PC
- Data visualization on multi-devices

Easy operation

- Easy operation of web-based data manager
- Access to all data from a portal page

Reliable system

- Data storage to a secure cloud server
- Carefully selected durable devices
- Maintenance-efficient system

Cost-friendly service

- Low running costs

SESAME Series

SESAME Ⅱ -02d

Designed for
water level, rainfall, and various devices

Concurrent measurement up to 5 devices
Water level, rain gauge, and various sensors available

Standard solution of water level monitoring

A built-in SIM-free modem

Adaptive to GSM/GPRS, 3G (WCDMA)

Measured Items

- Water level
- Rainfall
- Temperature
- Humidity
- Soil moisture
- Ground surface level
- Turbidity
- Tree growth
- Etc.


Jatiluhur Dam


Curug Weir


paddy field


Sarobetsu Mire


larch in Tokachi Plain

Available sensors


Water level sensor
(Pressure type)
STS Sensor Technik Sirnach AG


Rain gauge(Metallic)
KOSHIN


Rain gauge(Plastic)
Ota keiki seisakusho


Pyrheliometer
PREDE


Soil moisture sensor
(ADR type)
Delta-T Devices


Soil moisture sensor
(Tensiometric) Sensez


Dendrometer
Environmental
Measurement Japan


Thermohygrometer
(active ventilation) MEL


Ground surface
level sensor MEL


Turbidity meter
OPTEX

SESAME Ⅱ -05d

Designed for
Vaisala Weather Transmitter WXT530

Wind, rain, and various weather parameters with one probe
For early warning system of weather hazards

Real-time monitoring system with a small intelligent weather station

paddy field

Barugbug

Measured Items

- Wind direction
- Wind velocity
- Rainfall
- Air temperature
- Relative humidity
- Air pressure
- Solar radiation
- Etc.

SESAME Ⅱ -06d

Designed for
Horiba Multi-parameter Water Quality Meter U-53

Various water quality parameters detected with one probe
For water management in rivers, dams, and culture ponds

Real-time monitoring system with a compact multi water quality sensor

Bekasi Weir

Barugbug Weir

Measured Items

- Turbidity
- Water temperature
- Water depth
- pH
- ORP
- Dissolved oxygen
- Electric conductivity
- Etc.

SESAME-CAMERA

Still image camera

Photo-shooting at programmed intervals and(by moving detection)
For monitoring general situation(and anti-theft)

vegetable field

the growing process of a plant

Specifications

- Up to 5 M pixels
- Programmable shooting intervals
- LED Flash light
- Moving body detection*
- Infrared images*

* Under development

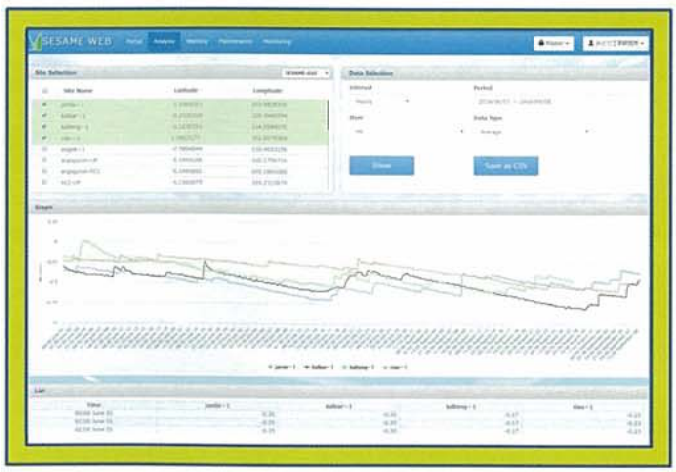
SESAME-WEB

Multi-device adaptive web application

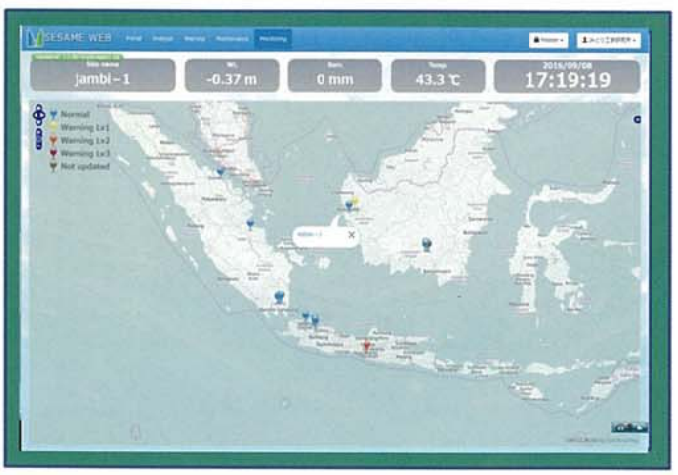
Web-based field data manager
Multi-language*, multi-device adaptive

* Bahasa Indonesia, English, and Japanese (Sep. 2016)

Portal page



Data selection, comparison, and download in Analysis page



Auto-patrol of latest information and warning levels in Monitoring page

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※Product specifications are subject to change without notice for improvement purposes