

Bio-chip immobilized luminous microorganisms for detection of organic pollution

The bio-chip immobilized luminous microorganisms and detection method organic and environmental pollution by using the bio-chip

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**Measurement of BOD of rivers, lakes and seawater in a short time.
Possible to measure BOD with high throughput on site.**

【Features】

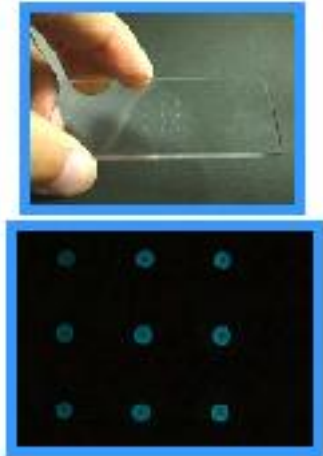
- 1. To measure BOD of plenty samples within 1 hour after sampling.**
- 2. To store the bio-chip in cool and dark place for 1 month.**
- 3. To use for distinction of hazardous substances.**

Outline

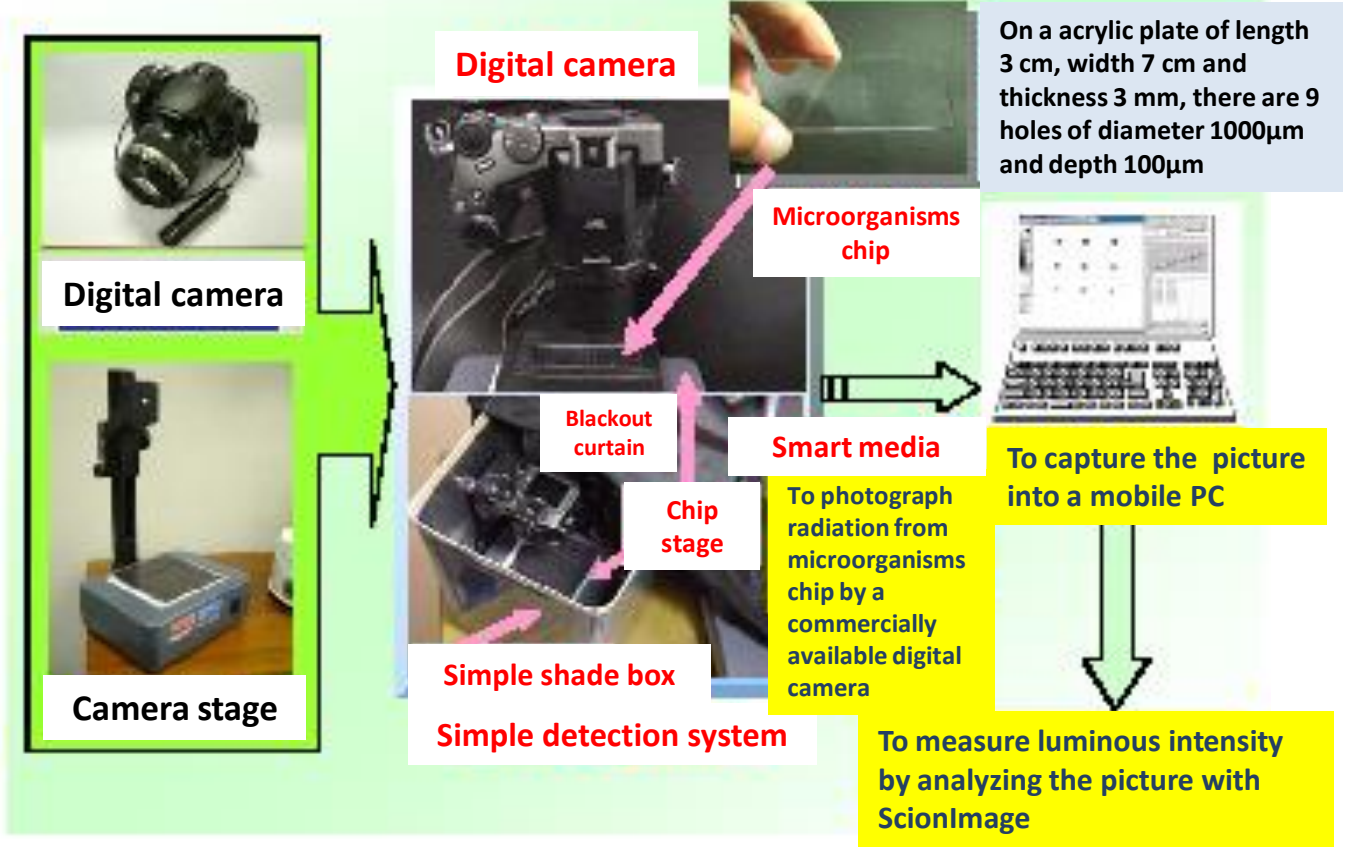
**The bio-chip is luminous microorganisms immobilized by silica gel etc, in micro holes of a base plate.
Dropping sample solution on the bio-chip, it is to measure BOD by detecting luminous intensity of the microorganisms after reactivating treatment.**

Measurement process

On site type simple detection system by using luminous microorganisms chip



Bio-chip



On site type BOD simple detection system