It is enough!

For Drinking Water Plant
Automatic Coagulant Control system

iPDA-250A

iPDA-250A

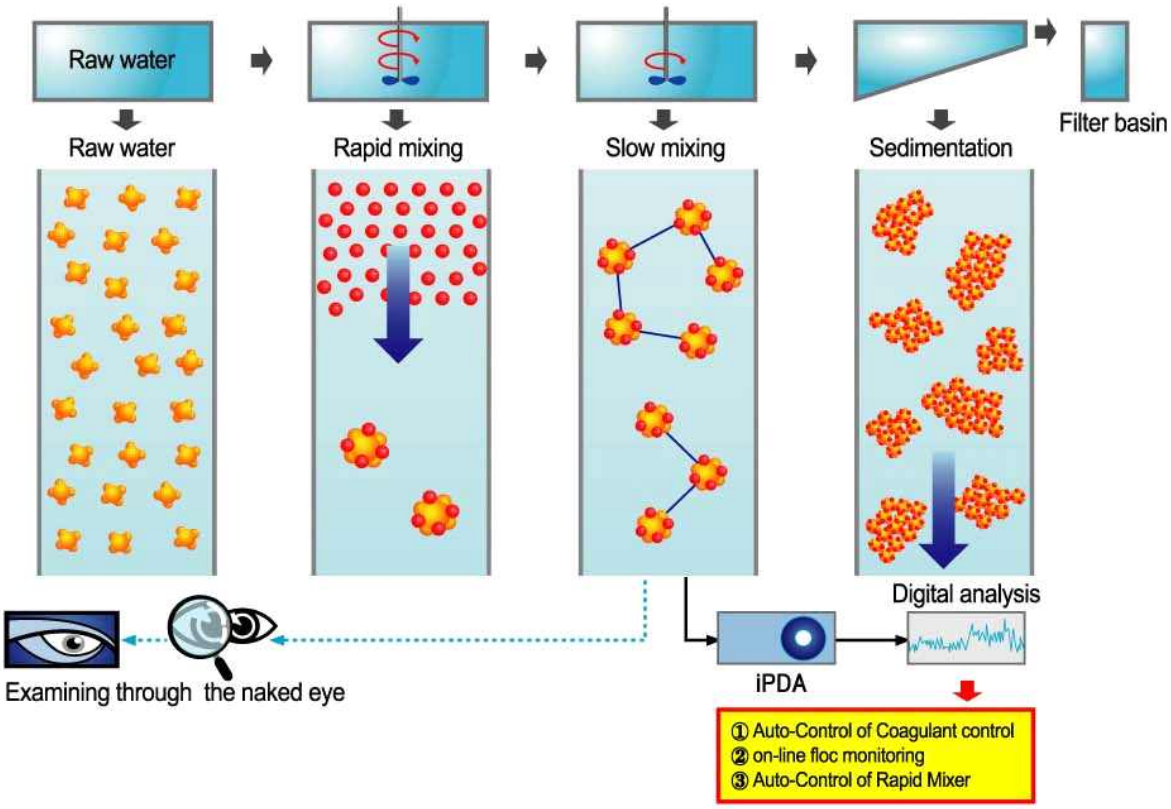
Nano-Coagulation Technology

- Auto-Determination of Coagulant Dosing
- Coagulant Saving & Sludge Reduction
- On-line Floc Monitoring
- Optimum Water Treatment

EcoNovel

iPDA-250A is Automatic Coagulant Control System for the best floc formation in the mixing zone.

▣ Floc measuring concept using iPDA



▣ iPDA Composing for Nano-Coagulation Technology

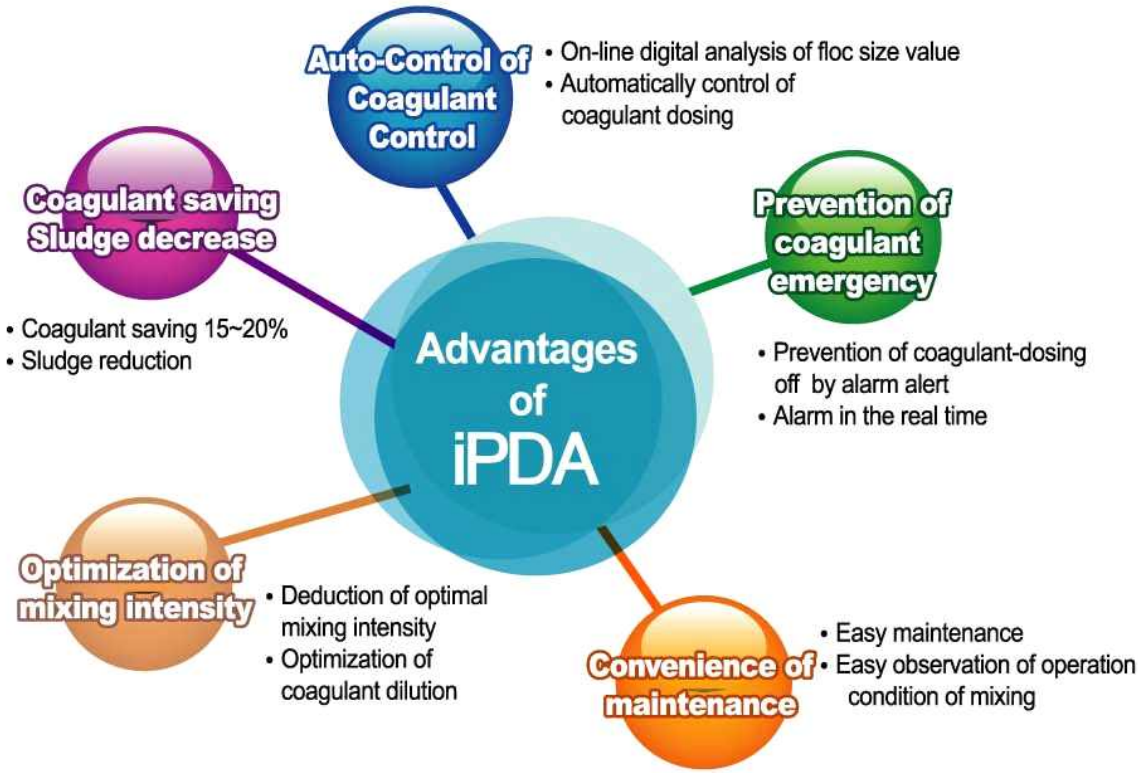
[Set-up on field]

[Sampling part]

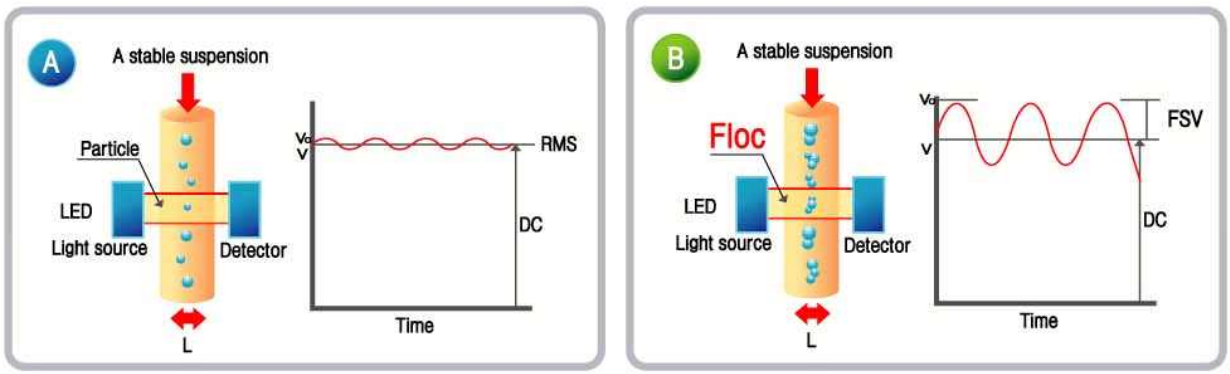
[Analysis part]

[Data processing part]

▣ Advantages of Nano-Coagulation Technology



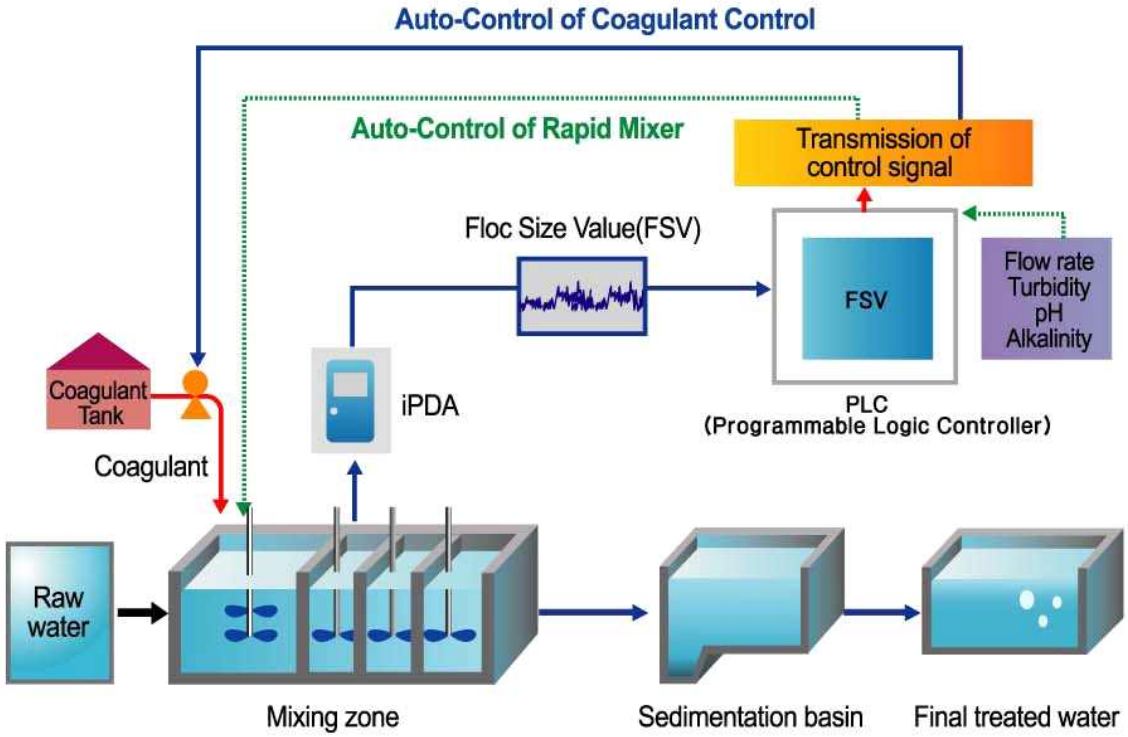
▣ Measuring Principle of iPDA Using Optical Mechanism



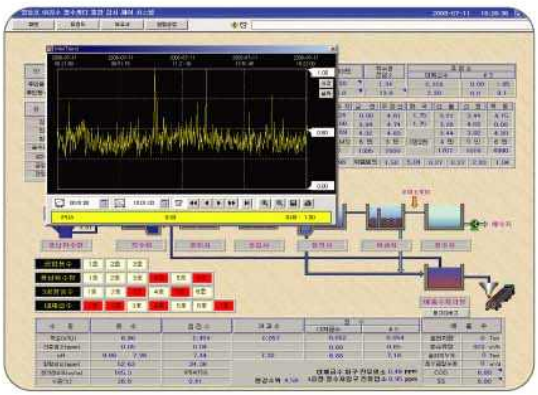
- Converting the intensity of the light through raw water into electrical signal
- Signal of raw water is V, Signal of pure water is V_0
- RMS signal is relationally changed by flocs
- Measuring FSV(Floc size value) of growing floc by RMS

iPDA-250A is Automatic Coagulant Control System in the real plants of Drinking & Sewage Water Plants.

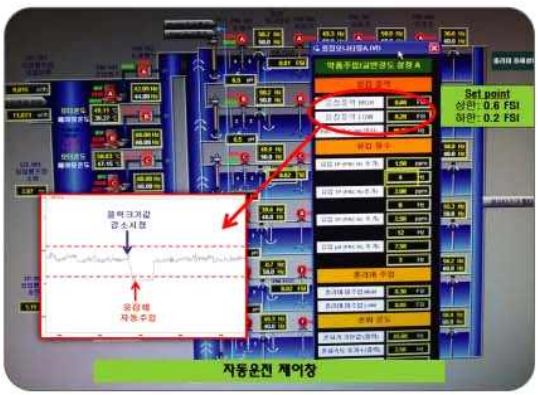
■ Automatic Coagulant Control System Using iPDA-250A



■ HMI of Automatic Coagulant Control using iPDA



DCS



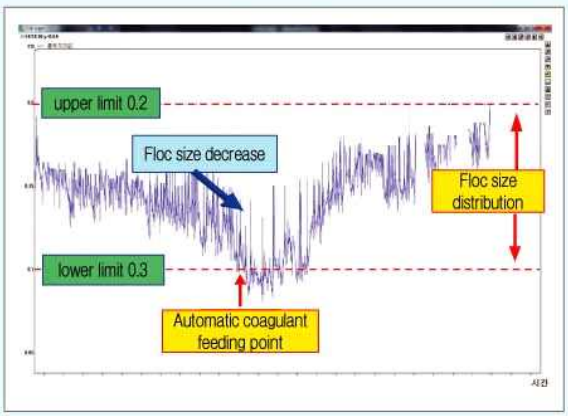
HMI

■ Model

iPDA-250A : Automatic Coagulant Control System for field
iPDA-200 : On-line floc monitoring for field

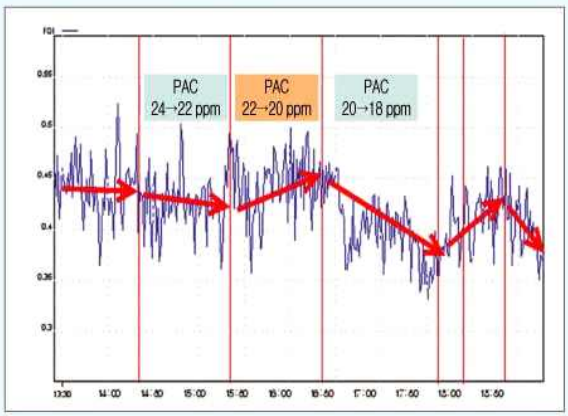
▣ Data of iPDA field application

◆ Coagulant Dosing : Auto-Control of Coagulant



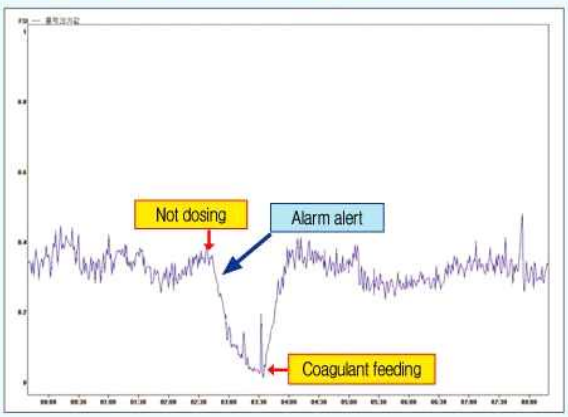
Coagulant is fed automatically under optimal condition using iPDA-250A

◆ Economical Aspect : coagulant saving



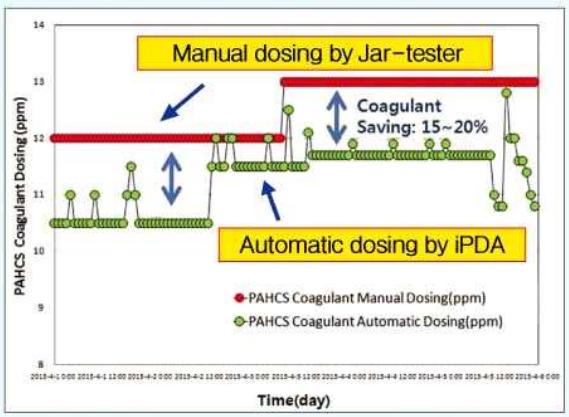
iPDA-250A feeds automatically the coagulant by the floc size value in the real time in the plant.

◆ Safety : prevention of coagulant accident



Under no feeding of coagulant, alarming within 3~5 minutes.

◆ Comparison of manual with automation



- iPDA-250A gives cost saving of 15~20%
- iPDA-250A determins the optimum coagulant dosages in the real time

iPDA-250A is Automatic Coagulant Control System as you think

▣ Applications of Drinking & Sewage Water Plants in Korea

Gwangmyoung City | Namyangju City | Daegu City (maegok) | Dongduchun City | Busan City (Duksan1)

Busan City (Duksan2) | Busan City (Hwamyoung) | Seoul City (Youngdungpo) | Sungnam City (bokjung) | Aechun City

Pohang City (yougang) | Busan City (Myoungjan) | Busan City (Kangseo) | Daegu City (Dalseochun1) | Daegu City (Dalseochun2)

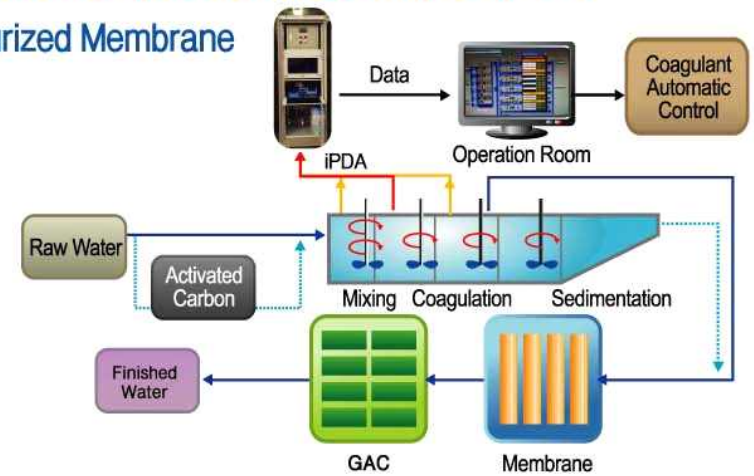
Daegu City (Seobu) | Daegu City (Sinchun1) | Daegu City (Sinchun2) | Daegu City (Ansim) | Daegu City (Jisan)

Daegu City (Dalsung) | Damyang City | Iksan City | Taebaek City | Hadong City

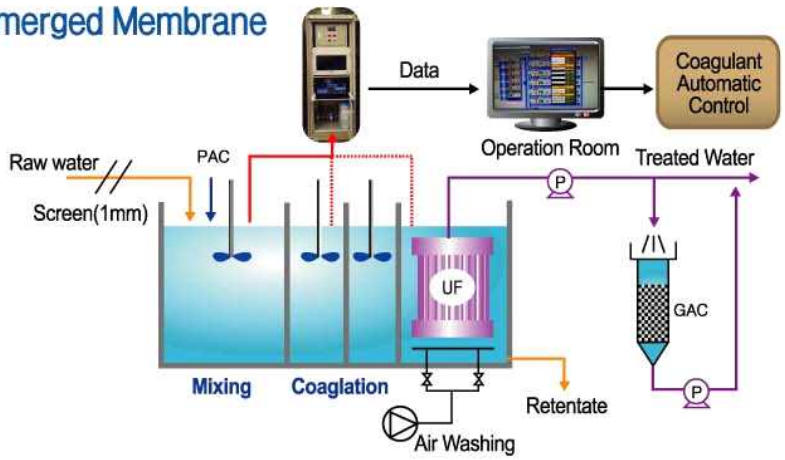
※ More plants

Application of Membrane plant of iPDA

◆ Pressurized Membrane



◆ Submerged Membrane



PDA2000 & PDA3000 for Laboratory

PDA 2000 & 3000 is a simple, rugged, but very sensitive monitor for flowing flocs, based on an optical technique.

Application include:

- Selection of optimum coagulants
- Assessment of the strength of flocs
- Control of floc sizes in water treatment
- Optimal coagulant determination

• PDA2000

• PDA3000

It is enough!

S A F E

Safety Automation Faithfulness Environment

iPDA-250A

Nano-Coagulation Technology

Creating the Clean Water for Our Life

EcoNovel

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