Zensor Simulator
Electrochemical Analyzer-Simulator
ECAS100

Replaceable &Editable Chip
5.0 Color Touch Panel
Simulation of Chemical Sensor for Off-line Use
Electrochemical Analyzer
Electrochemical Analyzer (ECA)

The Oscillographic Illustration in Potential and Current with Real Time during ECA Operation

CV (Cyclic Voltammetry)
LSV (Linear Scan Voltammetry)
SWV (Square-Wave Voltammetry)
DPV (Differential Pulse Voltammetry)
IT (Amperometry)
OCP (Open-Circuit Potential)
Replaceable & Editable Chip

4. It only takes 4 steps to complete process editing.
   (Procedure / Data analysis / Concentration transfer / Action to burn-in)

E. Every ECA methods can be interchangably edited.
   (CV / LSV / SWV / DPV / IT / OCP)

S. It can accommodate sample condition for interchangeable editing.
   (Waiting for sample / Waiting for second / Waiting for trigger button)

Simulation of Chemical Sensor for Off-line Use

Drug  DNA  Metals  Cosmetics  Biosensor  Food
## ECAS100 Specification

| Main Function | (A) ECA (ElectroChemical Analyzer) with On-line  
(B) ECAS (ElectroChemical Analytical Simulator) with Off-line |
|---------------|----------------------------------------------------------|
| Characteristic | (A) ECA/ECAS mode change  
(B) ECAS for application in real sample testing with off-line  
(C) Flexible edit program for operation of ECAS with off-line  
(D) 5.0 color touch panel for display the result of ECAS with off-line |
| Electrochemical Methods | (A) Cyclic Voltammetry (CV)  
(B) Linear Scan Voltammetry (LSV)  
(C) Square Wave Voltammetry (SWV)  
(D) Differential Pulse Voltammetry (DPV)  
(E) Amperometry (IT)  
(F) Open Circuit Potential - Time (OCP) |
| Range | (A) Voltage range: +2 ~ -2 (V)  
(B) Current range: 10^{-2} ~ 10^{-9} (A)  
(C) Data records number in ECAS mode: 100 data records |
| Operation system | Window XP above |
| Power input | 5V, 1600mA |
| Sensor connector color | (A) Green color - Working electrode (WE)  
(B) Red color - Counter electrode (CE)  
(C) White color - Reference electrode (RE) |
| Size of machine | 193(L) x 112(W) x 43(H) mm |