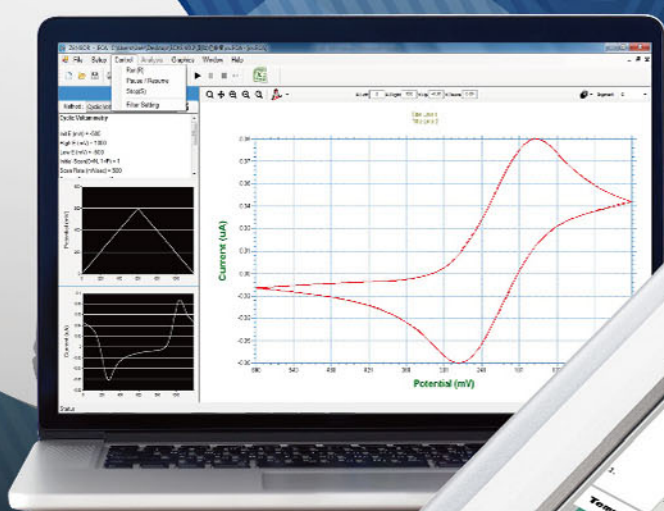


# Zensor R&D Simulator

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



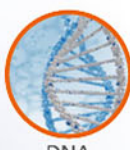
- 4** It only takes 4 steps to complete process editing.  
( **P**rocedure / **D**ata analysis / **C**oncentration transfer / **A**ction to burn-in )
- E** Every ECA methods can be interchangably edited.  
( CV / LSV / SWV / DPV / IT / OCP )
- S** It can accomodate sample condition for interchangable 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: $10^{-3} \sim 10^{-9}$ (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



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