

## APPLICATIONS

- Voltammetry
- Biotechnology
- Materials Science
- Electronics

# AUTOMATIC POLARIZATION SYSTEM

N600-HSV110



The N600-HSV110 is a **compact and high performance** potentiostat/galvanostat with a LCD monitor and **memory function capabilities**. Designed to conduct extensive electrochemical measurements such as cyclic voltammetry. This instrument is versatile and comes equipped with a USB connection for immediate data transfer and graphing of results.



### As a Potentiostat

(a) Maximum Output Voltage	± 12V (CE-WE)
(b) Maximum Output Current	± 100mA
(c) Control Voltage (on constant voltage)	0 ~ ± 5V (WE-RE)
(d) Control Current (on constant current)	0 ~ ± 100mA
(e) Setting Accuracy	± 1mV

### As a Function Generator

(a) Potential Setting	± 5V (4 digit setting)
(b) Potential Setting Resolution	1mV
(c) Potential Sweep Rate	7 ranges (10V/sec., 1V/sec, 100mV/sec ~ 1mV/sec., 10mV/min, 1mV/min)
(d) Potential Sweep Resolution	By 18 bit D/A converter
(e) CV Repetitive Cycle Number	1 ~ 99 cycle and continuous
(f) Step Time Setting	2 ranges (0.001 ~ 9.999 sec, 000.1 ~ 999.9 min)

### Data Collection Function

(a) Voltage Measuring Range	2V, 5V, and auto-range
(b) Voltage Measuring Input Impedence	More than $1 \times 10^{11} \Omega$
(c) Current Measuring Range	8 ranges (100mA, 10mA, 1mA, 100µA, 10µA, 1µA, 100nA, 10nA)
(d) Data Sampling Time	20 µsec ~ 1 minute, auto-sample
(e) A/D Converter	16 bit, maximum 100,000 data
(f) Measuring Accuracy	
Voltage	(FullX ± 0.2%) ± 1mV
approx. µA range	(FullX ± 0.5%) ± 0.2%
1 µA range approx.	(FullX ± 2%) ± 0.2%

### General Specifications

Power Source	AC120V, 60 Hz, 0.7A
Working Temperature	0 ~ 40°C
Working Humidity	10 ~ 90%
Accuracy Guaranteed Temperature	5°C ± 23°C
Physical Dimension	300mm X 165mm X 300mm (wXhXd)
Weight	7 kg

### FEATURES

1. Corresponds to 7 kinds of principle measuring methods:
  - CV Measurement
  - LSV Measurement
  - Single Step Chrono-Amperometry
  - Single Step Chrono-Potentiometry
  - Double Step Chrono Amperometry
  - Double Step Chrono Potentionetry
  - Rest Potential Measurement
2. Can monitor measured wave forms through a color LCD monitor, or can be used as a standalone unit.
3. Measured data can be saved into USB memory.
4. Conditions can be altered while the unit is in operation. Trial execution of measurement is easily done.
5. Noise is reduced by a digital filter.