

# DST1

## Desk Sputtering System

A versatile, high vacuum sputtering solution for thin film and SEM applications



### DST1 features

- Large format chamber.
- High resolution turbomolecular pumping.
- Fully automated colorful touch-screen control.
- Able to plot sputtering parameters graphs.
- Including USB port for graph and data extraction and software updates.
- Thickness monitor system for thickness measuring during coating process with precision of 1 nm.

**Nano Structured Coatings Co.**

نشانی: تهران - خیابان توحید - خیابان ستارخان - خیابان مهران آفرند - پ ۱۱ - طبقه اول. کد پستی: ۱۴۴۱۶۴۲۹۴۳  
www.emersell.ir

شماره تماس: ۰۹۲۱-۹۵۷۱۶۵۳ - ۰۲۱-۶۶۹۲۰۷۲۴

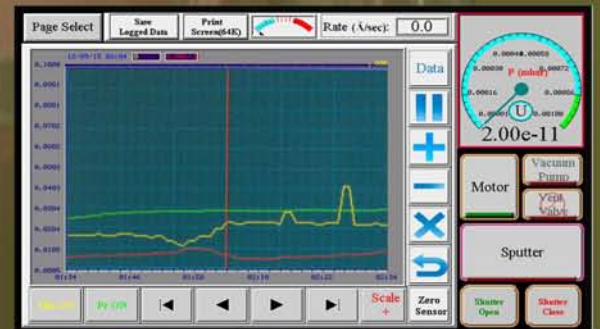
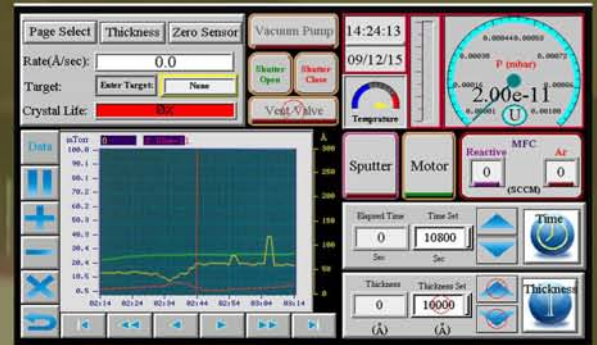


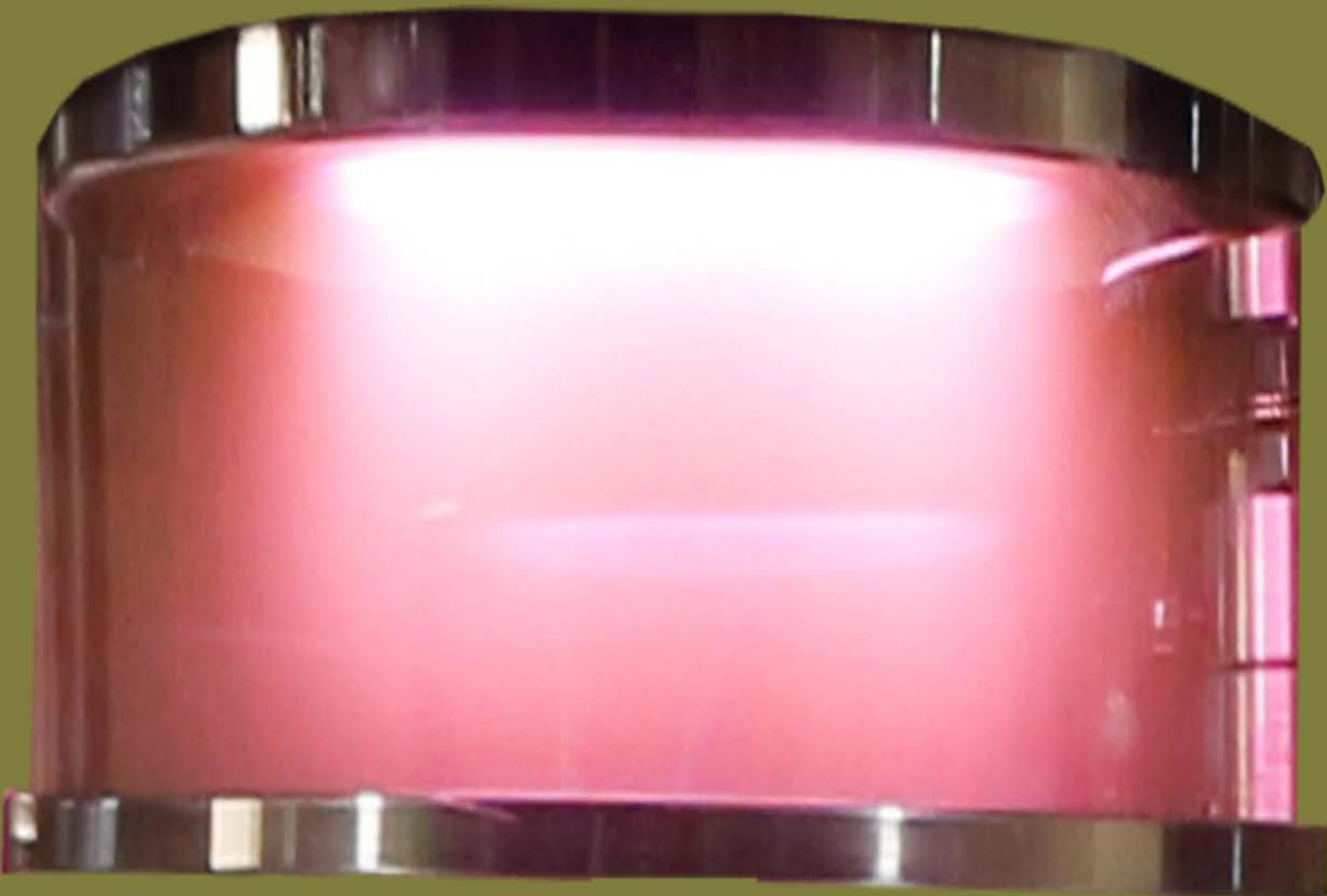
# STANDARD FEATURES

- Diaphragm backing pump.
- High vacuum turbo pump 60 l/s.
- 1 water cooled 4" cathode.
- Deposition continuously without need to rest.
- 300 mm OD x 200 mm Pyrex cylinder vacuum chamber.
- 0-3000 mA DC power supply.
- 7" touch screen control panel; includes features such as a log of the last 200 coatings carried out.
- Ultimate Vacuum: Less than  $9 \times 10^{-6}$  torr.
- Box dimensions: 50 Cm H x 65 Cm W x 51 Cm D.
- Utilities: 220V-50Hz - 20A.
- Gas: Argon - 99.999% (regulated to 2 - 5 psig); recommended but not required.
- Manual or automatic Timed and Thickness sputtering.
- Control the rate of sputtering to achieve finer grain structure.
- High precision quartz crystal thickness monitor.
- Automatically controlled the power of sputtering independent of pressure.
- Automatically controlled the temperature of cathode in order to protect the life time of the magnets.
- Equipped with rotary sample holder with ability of tilting in direction of cathode.
- Data is rapidly entered using fully automatic touch screen control.
- Precision Mass Flow meter (MFC) in order to fine control of the vacuum pressure.
- Drawing the pressure and thickness curves.
- Transfer the curves and sputtering process data by USB port to PC.
- Shipping Weight: ~ 36 Kg.
- Equipped with electronic shutter.

## Options

- 300 W RF power supply and matching box.
- Nitrogen venting gas.
- Substrate bias voltage.





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## Nano Structured Coatings Co.

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