

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.

WWW.pvd.ir

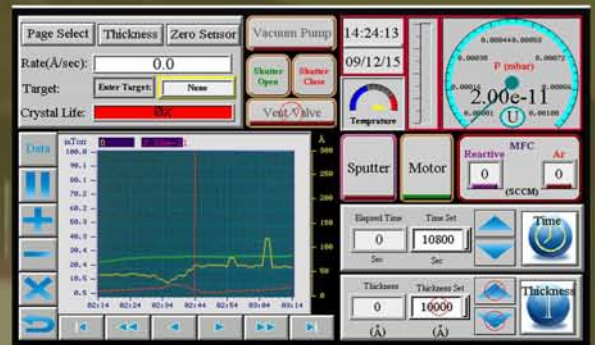


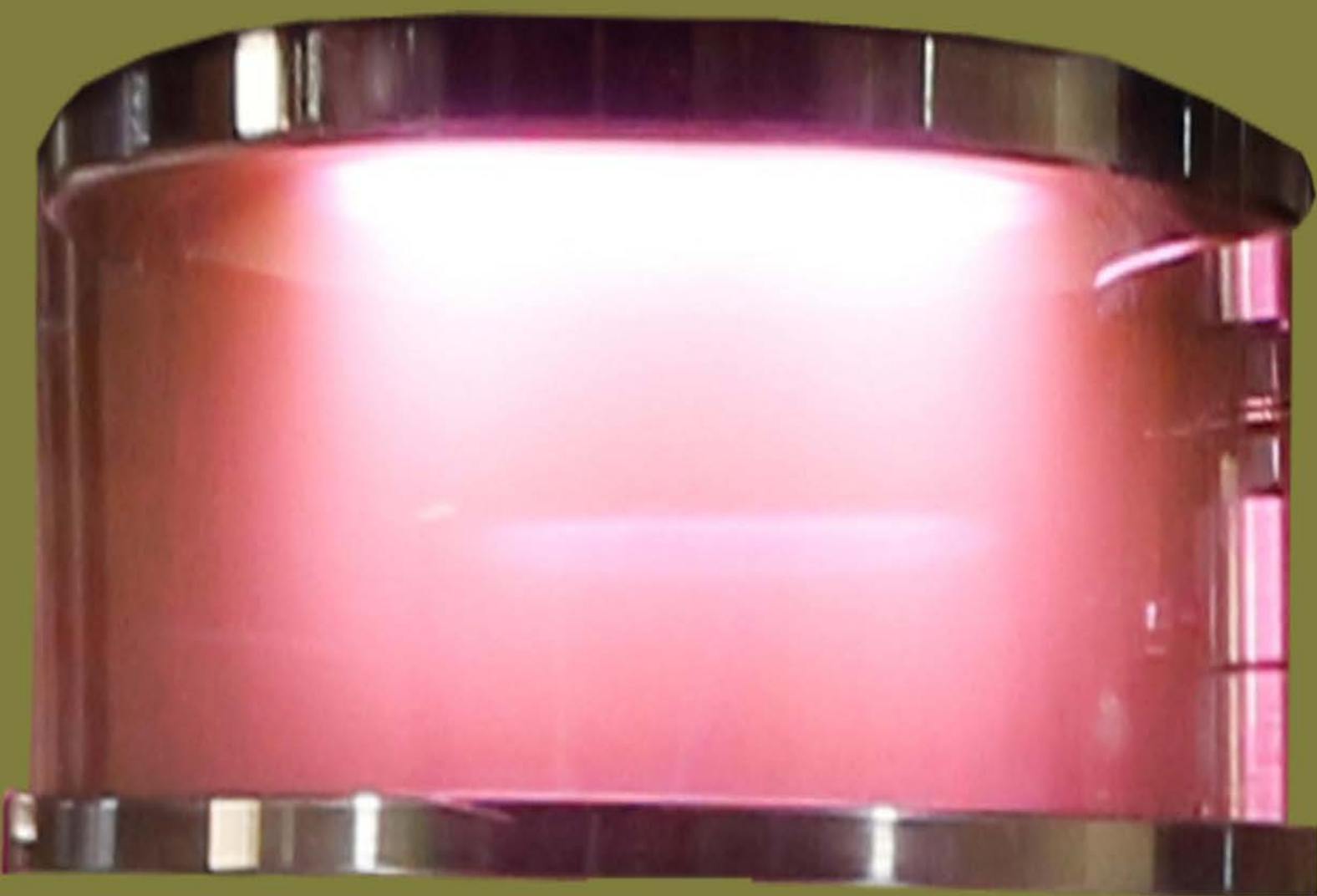
STANDARD FEATURES

- ☐ 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 9×10^{-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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