

NanoStructured Coating



Triple Source Desk Thermal Evaporator - DTT

The DTT is a desk top, turbo molecular-pumped thermal evaporator for vacuum deposition of thin films.



The triple-source evaporation with evaporation source (boat / basket / coil) selection system is ideal for deposition of multilayer or alloys.

This vacuum evaporation system with its suitable dimensions is capable of reaching the desired pressure in a short time and coating process can take place within a few minutes. It is suitable for research, laboratory and electron microscopy applications.

Features

- Multi-layer thermal coatings
- Large format chamber
- High vacuum turbo pump 300 l/s
- Ultimate pressure 2×10^{-6} Torr
- Diaphragm backing pump
- Full range vacuum gauge
- Evaporation source (boat / basket / coil) selection for multilayer thin film deposition
- Co – evaporation to form alloy films
- Quartz crystal monitoring system for real time thickness measurement (1 nm precision)

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- Manual or automatic Timed and Thickness deposition
- Intuitive touch screen to control the coating process and rapid data input
- User friendly software that can be updated via network
- Equipped with electronic shutter
- Equipped with rotary sample holder
- 500 °C irradiative substrate heater
- Two years warranty

Application

- Metal & dielectric Films
- Fabrication of thin film sensors
- Optical components
- Nano & Microelectronic
- Medical Components
- Magnetic device

Thermal Evaporation Sources (boat / basket / coil)

The DTT, desk vacuum thermal coater, can be fitted with three independent heat resistance thermal evaporation sources. The good design of the evaporation source holder causes no contamination from source materials on each other. The length of the source holders can be adjusted in the range of 5cm~9cm.

Touch Screen Control

PLD, is equipped with a 7" colored touch screen and full automatic control and data input that can be operated by even inexperienced users. The vacuum, current and deposition information can be observed as digital data or curves on the touch screen. Information of the last 300 coating can also be saved in the history page.

Specification

- Multi boats, baskets and coils installation
- Ultimate Vacuum: Less than 2×10^{-6} Torr
- Records and plots coating parameters graphs
- Transfers the curves and deposition process data by USB port to PC
- Automatic control of power of coating independent of pressure
- High current electrical feed through
- 0-100 high current, protected against short circuit, DC power supply
- Utilities: 220V- 50HZ- 16A
- Dimensions: 60 Cm H × 65 Cm W × 50 Cm D
- Shipping weight: ~ 60 kg

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Options and Accessories

- High current power supply
- Quartz crystal
- Spare glass
- Evaporation sources (boat / basket / coil)
- Thermal source materials
- MFC