

The ST3000 ion source system delivers the highest power for Physical Vapor Deposition processes – 2.5 kilowatts

The SainTech ST3000 Ion System has been specially developed to provide an extremely reliable and maintenance-free facility for many applications in physical vapour deposition processes. The compact design and rugged construction allows easy installation to both new and existing vacuum deposition systems.

The ST3000 and Ion Assisted Deposition

The IAD of thin film growth is a proven technique that provides dense and highly stable films without need of additional substrate heating.

The ST3000 has further enhanced the IAD process to include deposition onto a wide variety of glasses, plastics and metals.

The ST3000 provides unparalleled film adhesion for both metal and non-metal films.

ST3000 Features:

- Ion beam energies selectable up to 300eV
- Beam currents to 12 amps
- Full-time use of high purity oxygen.
- Highly efficient gas injection design greatly reduces gas load
- Direct water-cooling to reduce maintenance and radiation load
- Extremely low maintenance. The patented design utilizes a specially coated anode, which resists build-up of electrically insulating oxide coatings and ensures ease of cleaning.
- Extremely stable operation in IAD processes due to patented electrode design
- Broad - beam divergence for large area coverage with a uniform ion flux.
- **Pulse-mode Operation** for ion-assistance of radiation-sensitive film materials such as many commonly used infrared and UV thin film materials eg MgF₂ & LaF₂.
- **Remote Control & Monitoring** of process parameters. A front panel control toggles control from local operator to remote master control and monitoring of all operational parameters
- **Auto or Manual control of Beam Current**
- **Choice of coiled or straight wire filaments**

Optional Features Available –

- **Dual Gas – Either of two gases can be used individually or as a mixture.**
- **Dual Filament with Auto Changeover**
- **Selection of Source Mounting options**

For further information please contact the SainTech Sales Office:

SainTech Pty Ltd

PO Box 3042, Monash Park 2111

New South Wales, Australia

Visit our web site at www.aintech.com

Tel: +612 9817 0466, Fax: +612 9817 0488

Email: sales@saintech.com

