AJA Sputter Deposition

Manager: Jerry Drumheller
Backup: Tom Pennell

Work Phone 254-4859
Work Phone 254-4309

Calls to staff phones will be automatically forwarded to their cell phones during accessible hours. At other times leave a message or send them an email.

Safety
- No unusual hazards during normal operation
- No buddy system restrictions

Process Restrictions

Material Restrictions
- No high vapor pressure substrates or films (Lead, Zinc, Indium, ITO, Tin, Cadmium, etc)
- Adhesives are not allowed (scotch tape, Kapton tape, glues, epoxies, greases, etc are not allowed) in the chamber. Only use clips to secure substrates.

Parameter Restrictions
- Do not exceed the maximum power restrictions for particular targets
- RF ramp up and down times must be set at 1 Watt per second

Scheduling / Sign-up Restrictions
- Maximum 4 hr block reservations anytime - Must leave a 4hr block between reservations - Maximum 12 hours reserved in advance at any time

Requirements (Do Every Time)
Substrate holder must be loaded into the main chamber in order to run a process; You must remain in the cleanroom while the (DC or RF) power supply is running; Pump down loadlock when finished; Before venting the loadlock make sure that the manual isolation valve is closed; Only use the smaller 4 inch chuck if heating above 400°C; Follow the latest target changing policy when making reservations; Policy will change over time to accommodate the global user community; RF ramp up and down times must be set at 1 Watt per second

Prohibitions (Never Do)
- NEVER run any processes without the substrate holder in the main chamber
- No unauthorized materials or substrates; DO NOT attempt to apply substrate heating or perform reactive sputtering unless you have received specific training, beyond general training, that covered those aspects; DO NOT vent the loadlock unless the isolation valve is closed; DO NOT log out of the AJA Phasor II J software - you will not be able to log back in or restart the software; DO NOT ever reboot the computer control system - you will not be able to restart the computer system; DO NOT clean the substrate holder, report to manager if it needs cleaning; DO NOT open the front cover panels of the AJA system DO NOT open the dry box containing targets

Common Problems

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Other Comments or Cautions

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