



ARRADIANCE®

PRIME™ VERDE

Molecular Layer Deposition

The 1st commercially available Thermal and Plasma Enhanced Molecular Layer Deposition (MLD) system, **VERDE** enables you to expand your capability beyond inorganic films to organics and even hybrid films



VERDE - your solution for advancing:

- ◆ Organic Coatings
- ◆ Functional Polymer Coatings
- ◆ Energy Storage Innovations
- ◆ Photonics and Quantum materials
- ◆ Biomedical Devices
- ◆ Flexible Electronics & Sensors

Expand your reach of the Periodic Table to include Organic precursors

Designed specifically to address the unique challenge of handling and delivering organic precursors

- ◆ Engineered to excel at growing organic films
- ◆ In situ self-clean maintenance for organics
- ◆ Effectively supports and delivers the most challenging precursors
- ◆ Intuitive multi-level heads-up Graphical User Interface (GUI)
- ◆ Next generation safety protocols protecting the system and operators
- ◆ Fully supports 2D and 3D objects
- ◆ Field reconfigurable as your needs change



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Thermal and Plasma Enhanced
Molecular Layer Deposition
(MLD) system

Features

Deposition Modes	Thermal & Plasma-Enhanced MLD/ALD (Flow Thru & Expo Modes)
Usage	R&D Scale-Up & Production
Chamber Volume	Up to QTY 20 - 200mm wafers or 210 x 210mm panels
Substrate Types	2D (Wafers) & 3D (Particles & Objects)
Precursor Material Supported	Organic and Inorganic
Precursor Sources	Configurable
Extremely Low Vapor Pressure Materials	Yes
Pressure Control	Yes
Cooling	Air-Cooled (No Chilled Water required)
Integration	Stand alone or Glovebox
Metrology	Yes – standard Metrology Port
Dimensions (W x D x H)	36.72" x 65.25" x 74.78"

**CUSTOMER CONFIGURABLE TO MEET YOUR SPECIFIC CURRENT AND FUTURE FILM
DEPOSITION REQUIREMENTS AND SUBSTRATE SUPPORT**

Featured in numerous publications, articles, and presentations around the world, The Arradiance ALD Technology delivers across diverse markets and applications

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