



# EXPLORER<sup>®</sup>

## THIN FILM DEPOSITION PLATFORM

THE EXPLORER OFFERS THE WIDEST RANGE OF CONFIGURATIONS AND DEPOSITION MODALITIES IN THE THIN FILM INDUSTRY: ELECTRON BEAM EVAPORATION, RESISTANCE EVAPORATION, SPUTTERING, ION PLATING, AND ION ASSISTED DEPOSITION.

- ✓ R & D
- ✓ BATCH PRODUCTION
- ✓ EVAPORATION
- ✓ SPUTTERING
- IN-LINE PRODUCTION
- ✓ PECVD

MADE IN THE U.S.A. SINCE 1964

# EXPLORER

## THE DENTON DIFFERENCE YOUR PROCESS IS OUR PROCESS

We collaborate with you to design a system that solves your exact thin film coating process needs. When we ship you a tool, it's production ready.

- Our systems scale to meet your production requirements
- We believe in customers for life
- Worldwide support network

### AT DENTON WE CARE ABOUT YOUR SUCCESS

- FACTORY ACCEPTANCE TESTS
- PERSONALIZED TRAINING
- REMOTE, REAL-TIME SUPPORT
- CE/UL/CSA COMPLIANT SYSTEMS



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[www.dentonvacuum.com](http://www.dentonvacuum.com)

# EXPLORER

## ABLE TO SPUTTER

DIELECTRIC, MAGNETIC, AND COMPOSITE MATERIALS. FLEXIBLE CATHODES THAT ADJUST TO THE IMPINGEMENT ANGLE ARE ALSO AVAILABLE.

## POWERFUL CONTROL SYSTEM

AVAILABLE IN SEMI-MANUAL MODE OR IN FULLY AUTOMATIC MODE WITH ONE PUSH AUTOMATION TO REDUCE SYSTEM DOWNTIME.

### PROCESSPRO UPGRADE OFFERS:

1. **CONSISTENT CONTROLS** ACROSS ALL DENTON VACUUM PRODUCTS.
2. **STANDARD SOFTWARE** MAKES IT EASY TO SUPPORT AND AVOID COSTLY CUSTOMIZATION FEES.
3. **SOURCE CODE** FOR YOUR PROGRAMS SO YOU CAN CUSTOMIZE YOUR PROGRAMS.
4. **NETWORK CAPABILITIES** MAKES THE EXPLORER A NODE ON YOUR NETWORK ENABLING REAL-TIME, REMOTE SUPPORT AND UPGRADES.



## FLEXIBLE CHAMBER SIZES

ACCOMMODATE SUBSTRATES UP TO 10"

## MULTIPLE PUMPING CONFIGURATIONS

A VARIETY OF DIFFUSION, CRYOGENIC, AND TURBO PUMP CONFIGURATIONS ARE AVAILABLE TO FIT YOUR BUDGET AND PROCESS. REAR OR BOTTOM FITTED PUMPS PROVIDE EASY ACCESS FOR SERVICE BASED ON YOUR WORKSPACE NEEDS.

# TYPICAL APPLICATIONS

## PECVD

- Materials Research
- Small Batch Systems
- 3D Objects
- Coat a Variety of Materials

## SPUTTERING

- Materials research
- Product QC & QA
- Semiconductor Failure Analysis
- CD Mastering
- Nanotechnology
- Compound Semiconductors
- OLEDs

## EVAPORATION

- Materials Research
- Ion Assisted Deposition (IAD)
- Medical Devices
- Telecommunications
- CD Mastering
- Lift-Off
- Protective Coating



FLEXIBLE CATHODE

# EXPLORER

## OPTIONS

	EVAPORATION	SPUTTERING	PECVD
SUBSTRATE HEAT UP TO 500C	X	X	X
PROCESS PRO CONTROLS	X	X	X
CO-SPUTTERING		X	
RF/DC/PULSED POWER SUPPLIES		X	X
MULTIPLE CATHODE OPERATION FROM SINGLE POWER SUPPLY		X	
ION SOURCE	X		
LN2 COOLED SAMPLE STAGE	X	X	
GLASS BELL JARS	X		
SINGLE OR MULTI-POCKET ELECTRON BEAM GUNS	X		
<b>PUMP OPTIONS</b>			
DIFFUSION	X	X	X
CRYOGENIC	X	X	X
TURBO	X	X	X
OIL FREE	X	X	X
DRY-SCROLL	X	X	X

specifications subject to change without notice



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