C146-E262A

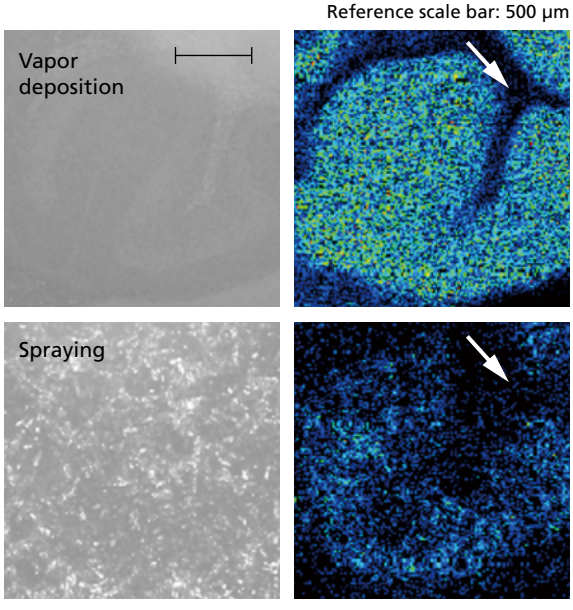
SHIMADZU
Excellence in Science

Matrix Vapor Deposition System

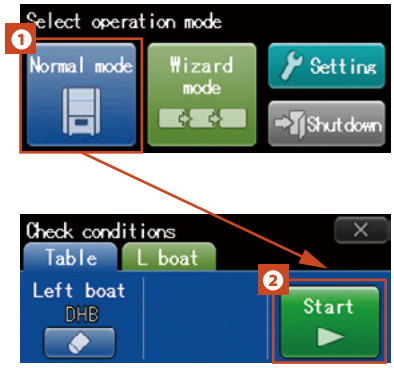
iMLayer™

Three Features of iMLayer

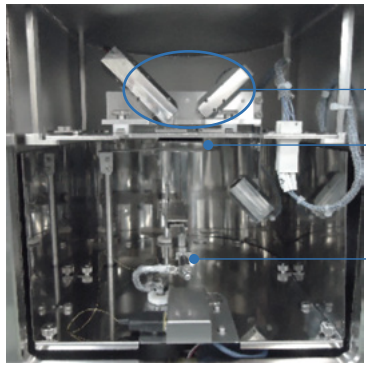
- Creation of finer matrix crystal grains via the deposition method
- Improved reproducibility of matrix coatings via automatic coating thickness control
- Simple touch panel operation



Achieves improved resolution and a matrix coating uniformity impossible using the spray method.



After system startup, press (1) and then (2) to start deposition.



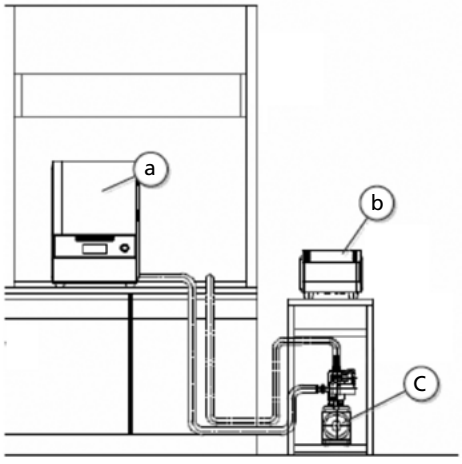
Interior of the system

Specifications

Item	
Applicable matrix*1	DHB, 9-AA, CHCA
Vacuum level attained	1×10^{-2}Pa
Max. temperature	250 °C
Sample	one glass slide

Note: This system applies matrix coatings via vacuum deposition. It cannot be used for pretreatment of highly volatile samples. Liquid matrices or highly volatile matrices cannot be used. Use transparent glass slides to control the system by checking the transmitted laser light.

Installation Example



Please prepare for the draft chamber at the inside dimension of more than D650 × W1000 × H60 (mm).
Sirrocco fan: CES-V

Size and Weight

Component (No.)	Size (mm)			Weight (kg)
	W	H	D	
(a) Main unit	416	610	450	80
(b) Power supply	296	230	390	28
(c) Rotary pump	430	230	163	30

Utilities

Power	AC 100 V, 50/60 Hz, 15 A
Max. power consumption	700 VA
Current	30 A or more (15 A of this: in the fume hood)
Temp. and humidity	18 °C to 28 °C / 40 % to 70 %

Control mode

Coating thickness measurement mode	Set the type of matrix and coating thickness by deposition for automatic operation
Deposition time control mode	Set the type of matrix and deposition time for automatic operation.
Manual adjustment mode	Adjust the deposition time manually while checking the intensity of the transmitted laser light.

*1 Contact your Shimadzu representative regarding other matrices.
Matrix coating is performed via vacuum deposition. Liquid matrices or highly volatile matrices cannot be used.

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