

Real Time science solutions

DART[®] SVP 3+D Scanner

The 3+D scanner is designed to permit movement of a large format object in order to complete determination of chemicals present on the object surface. X-Y movement of the sample stage is completed under computer control using a web enabled program. Movement of up to 20 mm in the Z-direction is completed manually.

Using the 3+D Scanner enables inspection of objects either by using a rapid scan, or manual selection of specific regions. In the scan mode continuous desorption ionization of the sample is completed with the mass spectra acquired into a single file. The resolution of the inspection is set by adjusting the Y-distance. In manual mode rapid inspection of specific areas of interest is completed by directing the stage movement to bring the area of interest into the desorption ionization region for analysis.

The DART SVP is required for implementation of the 3+D scanner since the experiment is completed by changing the angle of the DART source to 45° off-axis. Desorption and ionization occur as the sample is moved past the exit of the DART source. Efficient ion collection is completed using the Vapor[®] interface the entrance tube to which is in close proximity to the desorption region as shown in the schematic to the right.

Specifications

Scan area
X = 128 mm
Y = 86 mm
Z = 20 mm
Speed = Selectable from 0.2mm to 5mm / second

For a video of the 3+D Scanner in action visit our blog at <http://ionsense.blogspot.com/>. For more details go to www.ionsense.com or e-mail a request to info@ionsense.com

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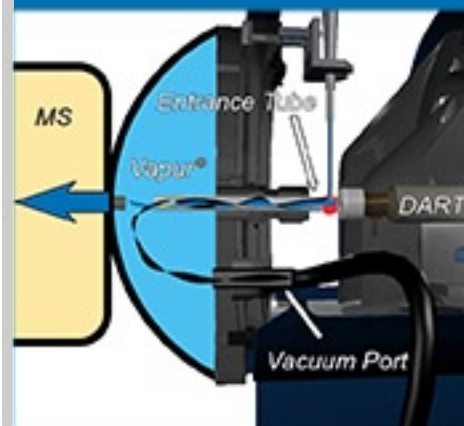
DART SVP with 3+D Scanner



The iPod touch interface makes method development easy



Scanner on JMS AccuTOF



DART with Vapor schematic