

New PDI Flight Probe for Meteorology and Aircraft Icing Research

PDI Extended Range Flight Probe (PDI ExR FP)

Artium Technologies, Inc. is pleased to announce the availability of our new flight probe for cloud studies associated with meteorology, aircraft icing, and other atmospheric research.



Key Features

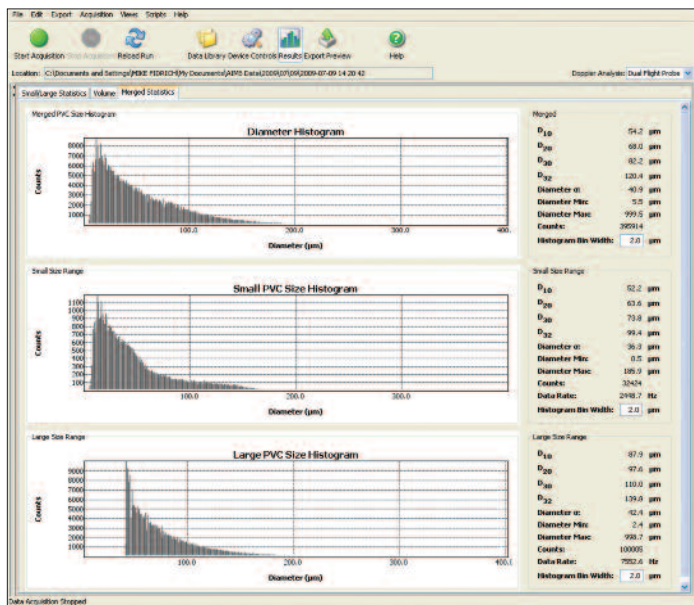
- Dual overlapping size ranges automatically merged to cover a droplet size dynamic range of 1 to 1000 μm
- Measurements based upon the proven phase Doppler interferometry method
- Measures droplet size and velocity simultaneously for each droplet
- Measures droplet number density, liquid volume flux, liquid water content, and droplet time of arrival
- Instrument works in all cloud and icing tunnel droplet concentrations, no need to reduce spray droplet number density
- Fully heated for operations in icing cloud and icing wind tunnel environments
- Suitable for measuring aircraft applications of pesticides
- Single electronics cable with water tight connector
- Built-in DPSS laser for long life and stable operation

Development was conducted under US Navy Office of Naval Research and NASA Glenn Research Center funding.

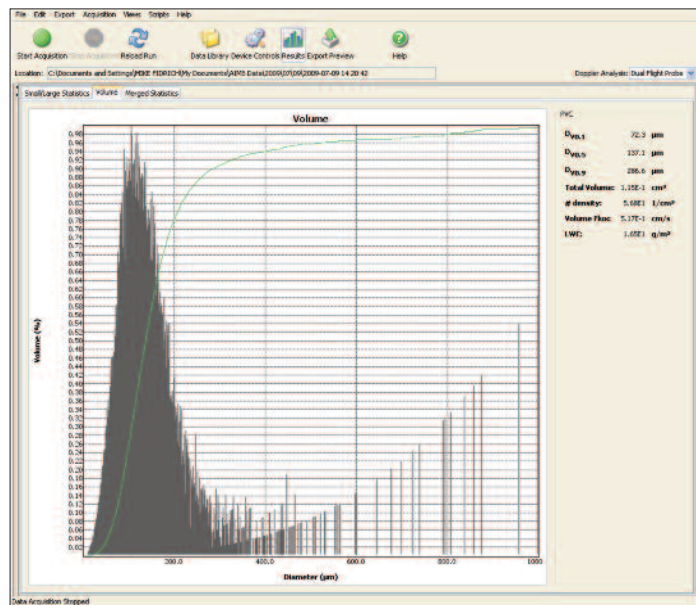
Spray Diagnostics

Particulate Emissions

Cloud Research



Merged Data Plots



Volume Distribution

Specifications:

Size Range:	1 to 1000 μm
Velocity Range:	0 to 450 m/s
Size resolution and Accuracy:	+/- 0.5 μm
Maximum Number Density:	100,000/cc

Volume Flux LWC Uncertainty:	< 10 %
Mass:	15 kg
Approximate Dimensions:	L = 50 cm, W = 27 cm, H = 23 cm
Voltage:	12-52 VDC or 120-240 VAC

Global Presence:

Artium's offices, research facilities & manufacturing plant are located in Sunnyvale, California. Our customers in North America are served directly from our Sunnyvale office. We have also established a world-wide distributorship to serve our customers in other parts of the world.

NORTH AMERICA

Artium Technologies Inc.
150 W. Iowa Avenue
Suite 202
Sunnyvale, CA 94086
Phone: (408) 737-2364
Fax: (408) 737-2374

EUROPE (DISTRIBUTOR)

LaVision GmbH
Anna-Vandenhoeck-Ring 19
D-37081 Goettingen
Germany
Phone: +49-(0)551-9004-0
Fax: +49-(0)551-9004-100

JAPAN (DISTRIBUTOR)

Seika Corporation
(New-Tokyo Bldg.) 3-1
Marunouchi 3-chome
Chiyoda-ku
Tokyo 100-0005

ARTIUM TECHNOLOGIES INC. | 150 W. IOWA AVENUE | UNIT 202 | SUNNYVALE | CA 94086 | WWW.ARTIUM.COM
TEL: (408)737-2364 | FAX: (408)737-2374 | EMAIL: INFO@ARTIUM.COM