

## Turnkey Phase Doppler Interferometer

### Droplet Size & Velocity and Spray Distribution Measurements

*Alignment Free*

*Affordable*

*Lightweight*

*IP66 Spray Rated*

*Optics Head*

*True Turnkey Operation*

## PDI-TK1 & PDI-TK2

**Artium Technologies, Inc.** introduces the Turnkey line of phase Doppler interferometers. These instruments provide the detailed droplet and spray data that only a PDI can deliver without the expertise, training, or infrastructure requirements of a traditional research-grade instrument.

The Turnkey PDI's offer permanent alignment and are ready to acquire data right out of the box. The optical heads are sealed and rated IP66 for spray ingress protection. These instruments are designed to be placed directly into a spray with optional purge-air hoods to prevent window fouling and are lightweight enough to easily traverse.

Turnkey PDI instruments utilize the same second-generation Advanced Signal Analyzer (ASA2) processor and Automated Instrumentation Management System (AIMS) software as Artium's research grade Modular PDI systems. This allows Turnkey users access to the powerful processor automation capabilities, data processing, and export capabilities of AIMS. The Turnkey system makes an ideal easy-to-use PDI but may also be used to enhance the measurement capabilities and flexibility of other Artium PDI systems.

The Turnkey line offers two body styles with differing working distances. Both body styles are available in three fixed measurement ranges. Multiple optical heads can be interchanged to optimize instrument sensitivity and diameter size range.

As with all Artium PDI instruments, the Turnkey system is calibrated with a NIST traceable procedure that is valid for the life of the instrument.



Spray Diagnostics

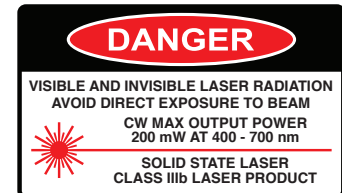
Particulate Emissions

Cloud Research

## Specifications

### Drop size measurement range

Drop size measurement range	1:150 µm	TK1 Body Style Only
	1.5:300 µm	
	3:600 µm	
	6:1,200 µm	TK2 Body Style Only
Optical Head Weight	5.8 lbs (TK1), 6.3 lbs. (TK2)	
Laser Type	Diode-Pumped Solid State (DPSS)	
Laser Wavelength	532 nm	



## Key Features:

- No Alignment
- IP66 Spray Wash Down Rated
- Lightweight
- Sapphire windows are durable and easy to clean
- NIST Traceable Calibration: No further calibration required for the life of the instrument
- Same second-generation Advanced Signal Analyzer (ASA2) and software (AIMS) used by research-grade modular PDI instrumentation

## Optional Features:

- Anti-fogging hoods prevent droplet accumulation on windows
- Heaters allow operation in icing conditions

## Global Presence:

### NORTH AMERICA

Artium Technologies Inc.  
470 Lakeside Drive  
Suite C  
Sunnyvale, CA 94085  
Phone: (408) 737-2364  
Fax: (408) 737-2374

### EUROPE AND SOUTH AMERICA (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 Digital Image Corporation  
Taku-Akasaka Building  
4-9-6, Akasaka, Minato-ku,  
Tokyo, 107-0052 Japan  
Phone: +81-3-3405-1288

### CHINA (DISTRIBUTOR)

OPLAN Co.Ltd.  
Rm.1006, Block 1st  
Huihuang Intl. Center, No.1st  
Shangdishi St., Haidian Dist.  
Beijing, 100085, China  
Phone: +86-10-62623871  
Fax: +86-10-59713638

### INDIA (DISTRIBUTOR)

Tesscorn Systems India  
1285, 5th Main, 17th Cross,  
HSR Sector 7  
Bangalore 560068,  
Karnataka, India  
Phone: 91.80.2572.9425  
Fax: 91.80.2572.9703  
Email: info@tesscorn.com  
Web: www.tesscorn.com

