



LAVISION

FOCUS ON IMAGING

**Artium
Technologies Inc.**

**Developing Advanced Instruments for Energy
and Environmental Research and Development**

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

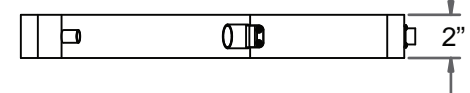
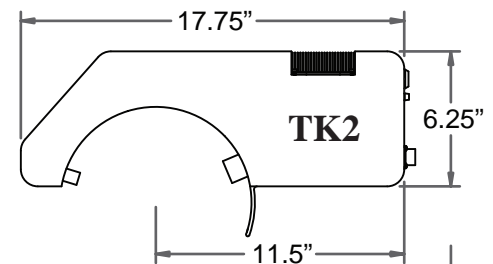
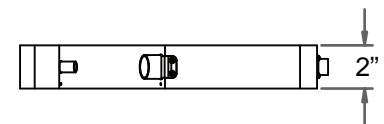
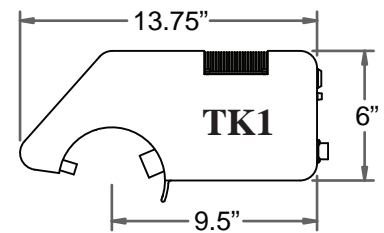
Drop size measurement range	1:150 μm	TK1 Body Style Only
	1.5:300 μm	
	3:600 μm	TK2 Body Style Only
	6:1,200 μm	
Optical Head Weight	5.8 lbs (TK1), 6.3 lbs. (TK2)	
Laser Type	Diode-Pumped Solid State (DPSS)	
Laser Wavelength	532 nm	

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:

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.

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