

# INTRODUCING THE SPRAYSCAN<sup>®</sup> mPT

## MOBILE PATTERNATION SYSTEM

### MEASURE, ANALYZE & OPTIMIZE SPRAY PATTERNS AND PERFORMANCE ON YOUR LINE OR IN YOUR LAB

The SprayScan mPT utilizes a laser and frame to illuminate the spray pattern for visualization. The Microsoft® Surface Pro® is used to acquire image or video for comparative analysis and optimization.

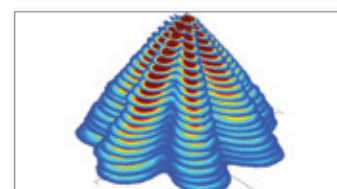
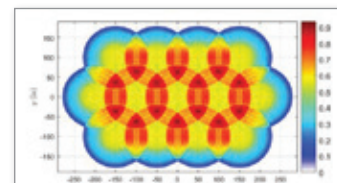
#### With the SprayScan mPT, you can:

- Capture spray pattern characteristics, including size, shape and distribution
- Quickly and easily verify uniformity and coverage
- Evaluate the impact of changes in chemistries and operating conditions on the spray pattern while the nozzle is spraying
- Document and compare spray performance over time to determine if nozzle maintenance or replacement is required

With the right data at your fingertips, you can optimize operations and detect spray pattern problems quickly and easily to minimize quality issues. SprayScan mPT is ideal for users with applications where coverage is critical – such as coating and lubrication.

#### Optional SprayScan mPT Software provides advanced analysis capabilities:

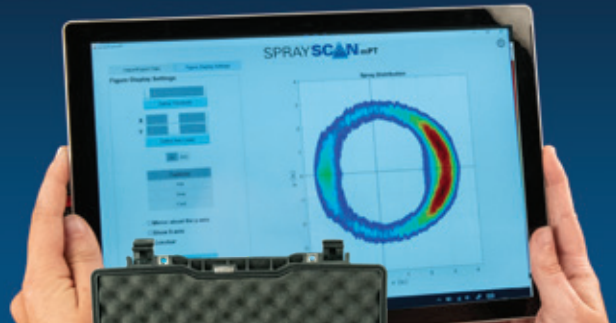
- Virtual Overlap Analysis – spray pattern visualization in a header configuration to aid in determining optimal nozzle placement
- Spray Reconstruction – recreate the spray in a 3D color-coded map showing distribution and concentration



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## SET UP & BEGIN CAPTURING SPRAY PATTERN DATA IN LESS THAN 5 MINUTES

- 1 Place the SprayScan mPT laser and frame below the nozzle
- 2 Droplets pass through the laser sheet and scatter light relative to the size and concentration of the droplets
- 3 Capture a 3 to 5 second video of the spray
- 4 Process the video and, in seconds, the 2D & 1D spray distributions are displayed with easily exportable spray images, distribution contours, and data matrices.



### SYSTEM COMPONENTS

#### SprayScan mPT Laser and Frame

- ¼-20 threaded mounts at 4 corners (pre-installed removable rubber feet) for use with any standard camera mounting hardware
- Battery-powered or plugged in to an electrical outlet using the DC input and supplied adapter
- Laser housing is permanently attached to the frame, the unit is ready to use when removed from the carrying case, with minimal setup
- Includes integrated hardware for Class 3B laser safety compliance

#### Microsoft Surface Pro Tablet

#### SprayScan mPT Software

Includes Spray Comparison Tool for quick comparison of your spray patterns with our proprietary library of spray patterns. Simple comparisons will help reveal problems and if necessary, indicate if a different nozzle is required to achieve the desired coverage. (Pictured on page 1.)

#### High-Quality Pelican<sup>™</sup> Carrying Case

#### Optional

- Virtual Overlap Analysis (VOA) Software
- 3D Spray Reconstruction Software



### TECHNICAL SPECIFICATIONS

Maximum Laser Power: 50 mW (adjustable)

Laser Run Time: ~5.5 hours

Frame Size (external)\*: 12.5" x 16.5" x 0.75"

Laser Wavelength: 532 nm

Frame Material: Anodized Aluminum

Frame Mounting Holes: 1/4-20

Laser Power: Integrated rechargeable LiPo battery (3 hour run time) or DC power supply (adapter included)

Frame Size (internal)\*: 11" x 15"

Software: Windows OS

21CFR1040.10 and IEC-60825 Compliant

PATENT PENDING

\*Custom sizes available upon request

Microsoft<sup>®</sup> Surface Pro<sup>®</sup> is a registered trademark of Microsoft Corporation.



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