


SETscan® allows detailed visual and numerical characterization of spray quality in terms of cone angle, asymmetry, streaks, voids and patternation number.



**Available Options and Accessories**

- Interface cables
- Custom control panel interface
- SETscan® Graphical User Interface
- Mounting stand
- Self centering nozzle chuck
- Spare lasers and lenses
- Data acquisition system
- Five year service contract



Specifications		OP-200
Maximum radial resolution		0.2mm
Maximum angular resolution		5 degrees
Power Input	120/230 VAC, 50/60Hz, 5.5W	
Maximum diameter of spray		2 inches
Patteration frequency		1000Hz/4000Hz
Weight		40 lbs
Dimensions		diameter: 28" height: 5"

# SETscan™

High Frequency Optical Patterator



OP-200



Study fuel surface area contours in combustors



Generate contour maps of drop surface area per unit volume in aircraft engines



Evaluate spray efficiency in agricultural nozzles

OP-200

The SETscan® is a high frequency Statistical Extinction Tomography based optical patternator used for on-line quality control of spray nozzles. Its reliability, accuracy, speed and ease of operation make the SETscan® the ideal choice for optical patternation.

## Patternation at its simplest

### Why the SETscan patternator?

- More reliable and accurate than competitive technology
- The fastest and easiest patternator to operate in the market
- Guaranteed reproducible results

### ROI implications

- Faster nozzle testing
- Lower quality-control costs
- Quality pricing strategy for your nozzles

### Marketing implications

- Strengthen your technology leadership position
- Reproducible quality assurance
- Valuable aid for marketing nozzles

### Product quality implications

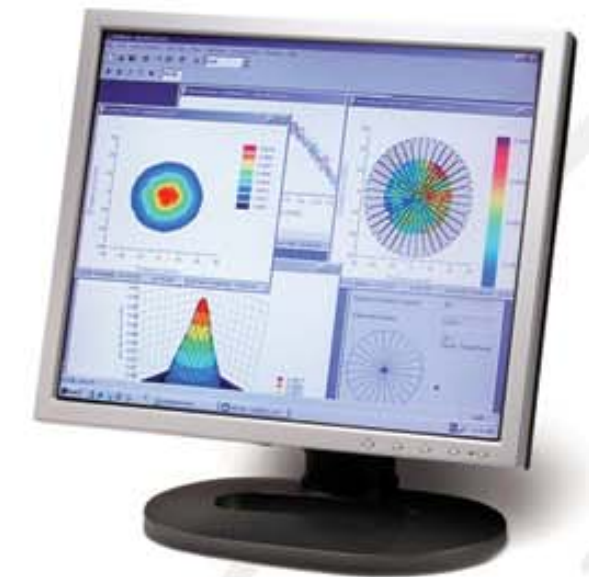
- Enables on-line inspection
- Traceable and warehoused data
- Quick design verification

### Customer Satisfaction Implications

- Nozzle quality assurance
- Product usage optimization
- Enhanced services

## Features

- Out-of-box deployment capability
- No factory floor setup required
- Mountable in any orientation
- Easily obtainable patternation results
- Patternation time as low as 250µs
- Insensitive to nozzle center misalignment
- Minimal technical expertise required
- Protection against corrosive liquids
- Immune to factory floor lighting
- Very low maintenance



## Patternation at its best

### Visualization Tools

- Cone angle, asymmetry, streaks, voids and patternation number
- GUI with point and click operation including one click calibration
- Contour plot of drop surface area per unit volume
- Patternation number for user specified pie, linear and area configurations
- Rotatable, 3D plots, transient movies, and data cubes
- Portability of data and graphics to desktop applications

