

# Fast and accurate hot particle diagnostics for research and quality control



SprayWatch 2S system is your best choice for all thermal spray processes to:

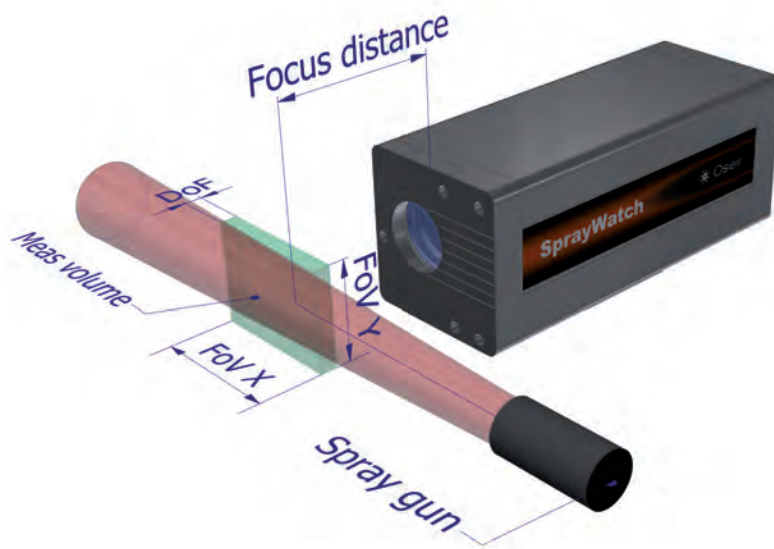
- Optimize coating performance & deposition efficiency
- Offering best control of coating thickness per pass
- Minimizing use of materials, resources and waste to save cost and the environment
- Maximizing your profitability

**SprayWatch**

[oseir.com/spraywatch-2s](http://oseir.com/spraywatch-2s)

*Best thermal spray  
diagnostics tool*

# SprayWatch



SprayWatch 2S scientific uses a novel patented pyrometric filter design for repeatable temperature and particle measurement without frequent re-calibrations. On-line adjustment of the optics allows for diagnostics of a wide variety of processes with the same system, matching the measurement area to the plume width for best results.

Measured parameter	Range
Particle temperature	1000 – 4000°C
Particle velocity	1 – 2000 m/s
Relative flux	relative value or particle count
Spray position	-12 – +12 mm
Spray width	1 – 53 mm
Spray angle	+10° – -10°
Spray divergence	0 – +15°
Particle size	10 µm
Measurement area (WxH):	adjustable from 15 x 13 mm to 53 x 47 mm
Dimensions (WxHxD)	100 x 100 x 260 mm
Weight	abt. 3 kg
Cooling	Filtered compressed air

NOTE 1: values indicated are typical but not absolute. The range will somewhat depend on the process and application.

All measurements are factory calibrated, no need for field calibration.

**For Plasma, HVOF, HVOF (limited), Wire-arc, Flame spray processes**



Oseir Ltd.  
Hermiankatu 12 D  
33720 Tampere  
Finland

Tel. +358 40 773 6311  
info@oseir.com  
https://oseir.com



## For daily quality control



Everything on a single page for daily process monitoring and quality control.

## For process & coating development



More detailed historical data for developing best coatings with lowest cost.

## For detailed distribution data



Distributions of particle speed, plume density and spray temperature.

## Options

- Substrate temperature measurement
- Sturdy carry case for easy portability
- Remote data collection, level alerts and sensor control (OPC UA interface)