

# Fast and accurate hot particle diagnostics for daily quality control and cost savings



SprayWatch 4S system is your choice for effective daily quality control of all thermal spray processes to:

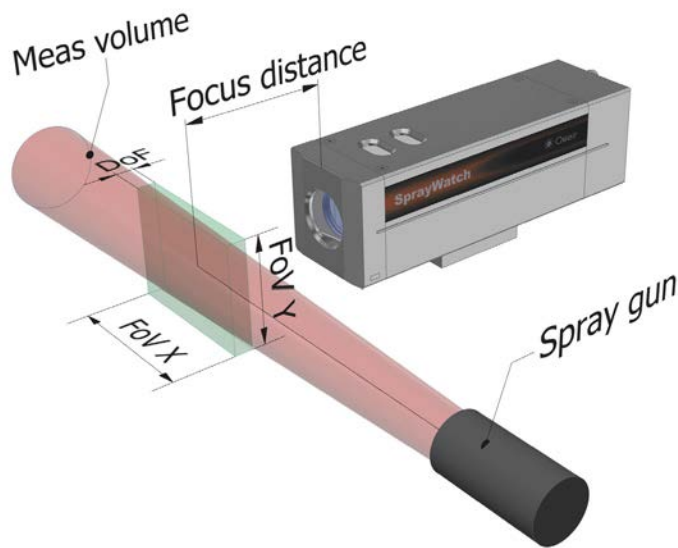
- Optimize coating performance & deposition efficiency
- Offering best control of coating thickness per pass
- Minimizing use of materials, resources and waste to save cost and the environment
- Maximizing your profitability

**SprayWatch**

[oseir.com/spraywatch-4s](http://oseir.com/spraywatch-4s)

*Best choice for  
daily quality control*

# SprayWatch



SprayWatch 4S HS uses a novel patented pyrometric filter design for repeatable temperature and particle measurement without frequent re-calibrations. Adjustment of the optics are done on the camera and allow 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	-20 – +20 mm
Spray width	1 – 30 mm
Spray angle	+15° – -15°
Spray divergence	0 – +15°
Particle size	-
Measurement area (WxH):	adjustable from 36 x 27 mm to 71 x 54 mm
Dimensions (WxHxD)	60 x 60 x 220 mm
Weight	abt. 1 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, Wire-arc, Flame spray processes



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## 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)