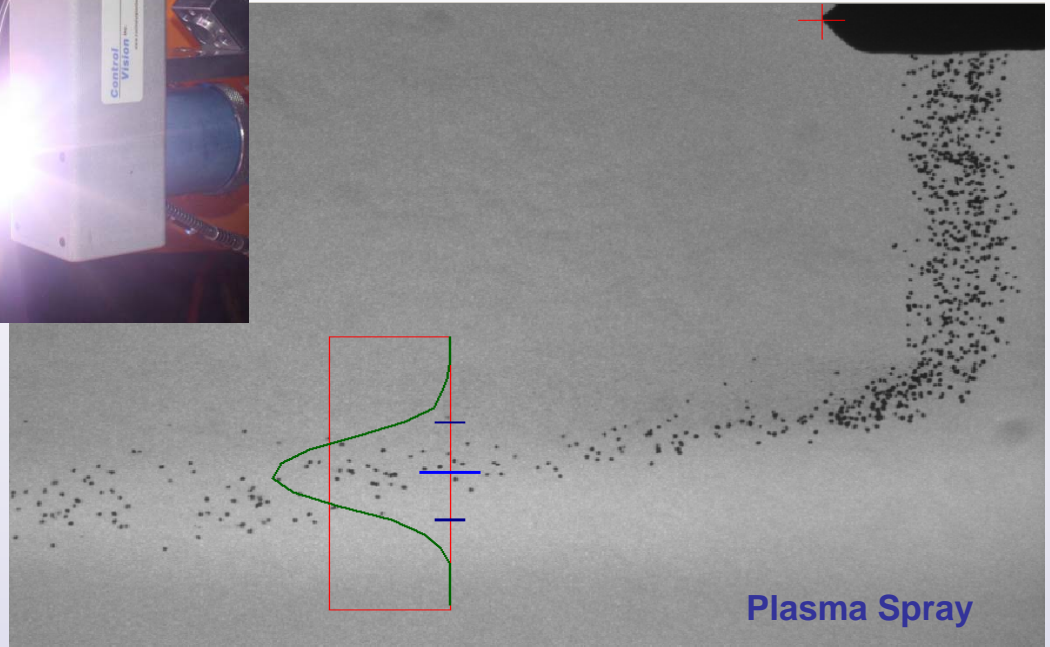
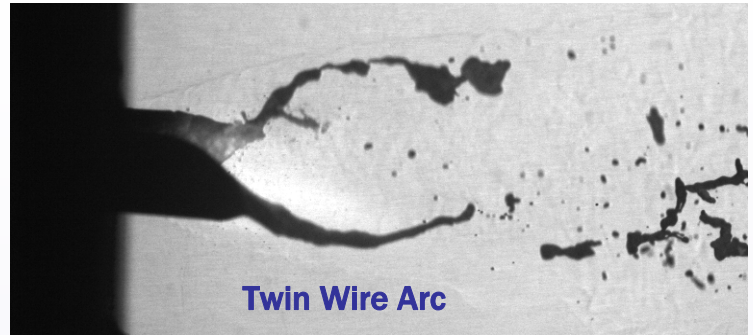
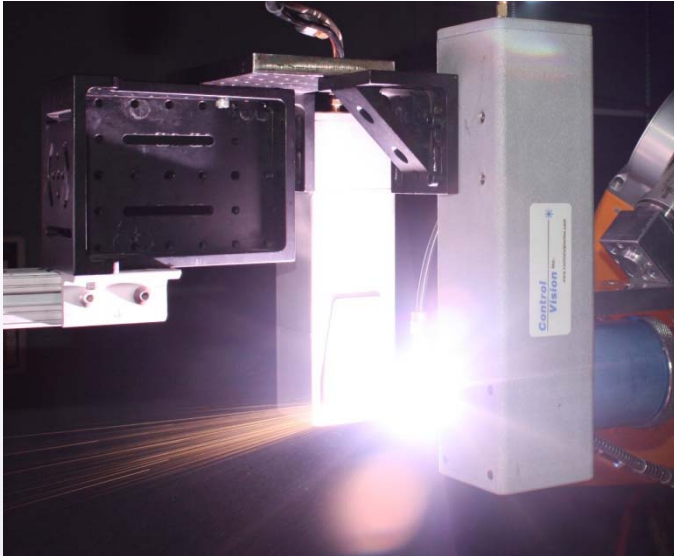


SprayCam™

Low Cost Particle Imaging and Process Consistency Measurement System For Thermal Spray



- Plasma Spray, Electric Arc Spray, Flame Spray, Cold Spray and Suspension Spray
- High speed, pulsed laser captures particles in time
- Proprietary optical system eliminates plasma light
- Real-time measurement of particle distribution including:
 - Position
 - Width
 - Stability
 - Flux
- 30Hz Sample Rate
- Robust, actively cooled environmental enclosure
- Gigabit Ethernet instrument control
- Factory aligned for easy installation
- Additional applications: Metal droplet transfer in welding processes, liquid droplet size and distribution measurement

ADVANCED MATERIALS AND
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Office (805)581-6045
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Specifications for SprayCam

Specifications:

General:

Sample Rate	30 Hz*
Laser Wavelength	905 nm
Laser Pulse Width	Factory Preset at 30ns
Minimum Sensor Shutter Speed	3.3µs
Sensor Resolution	767(h)X576(v)
Controller to Sensor Interface	Gigabit Ethernet
Maximum Controller to Sensor Distance	100m
Power	85-265VAC at 50/60Hz

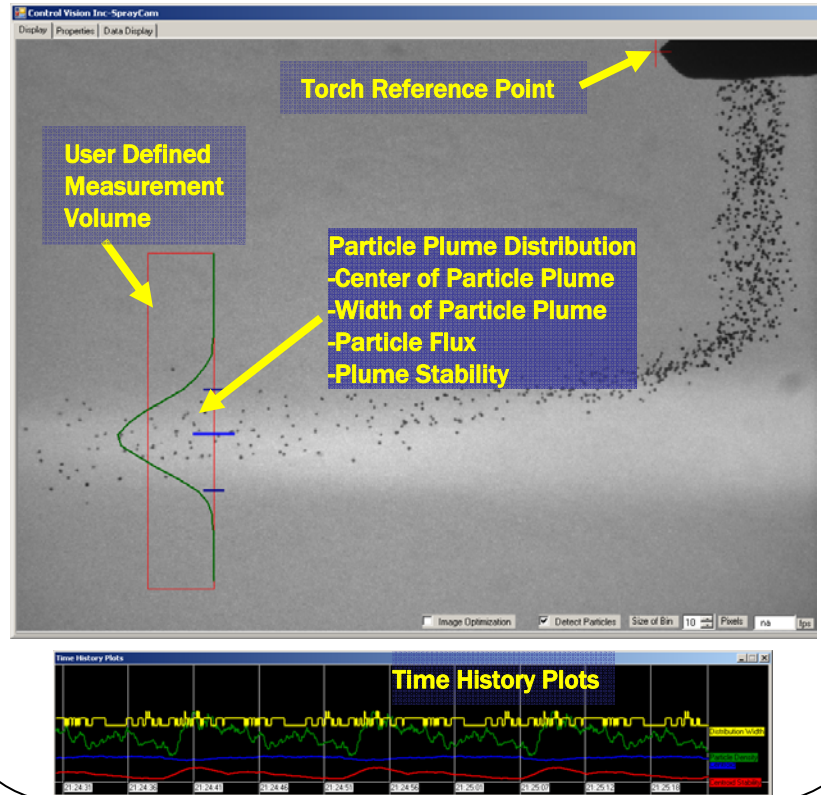
Detection:

Minimum Particle Size	20µm*
Maximum Particle Velocity at 20µm particle size	667m/s
Maximum Particle Velocity at 50µm particle size	1667m/s

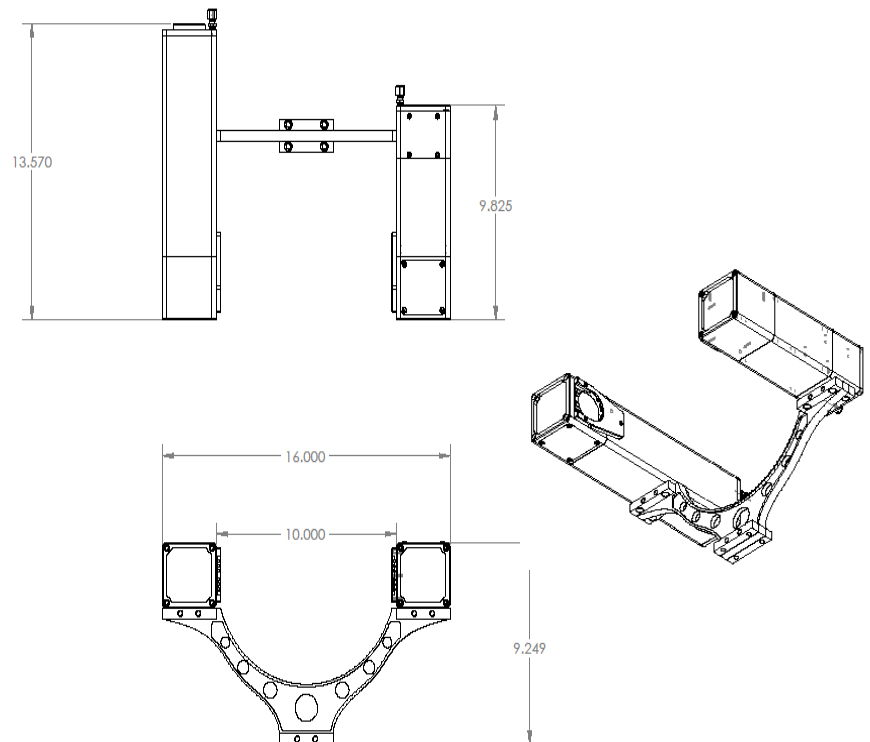
Environmental:

Sensor Enclosure	Rugged Anodized Aluminum
Temperature/Dust Management	Plant Air Provides: 1. Sensor/ Laser Thermal Management 2. Positive Pressurized Enclosure Keeps Dust Out 3. Air Buffeted Windows Prevent Dust Accumulation
Operating Temperature	0°C to 50°C 32°F to 122°F

Software:



Dimensions (Inches):



*Higher sample rates and higher resolution available in custom systems.