



SPRAY-311XP

Spray Particle Size Analyzer

Gold APP Instruments China

Lead You to Particle World Better



ES France - Département Bio-tests & Industries
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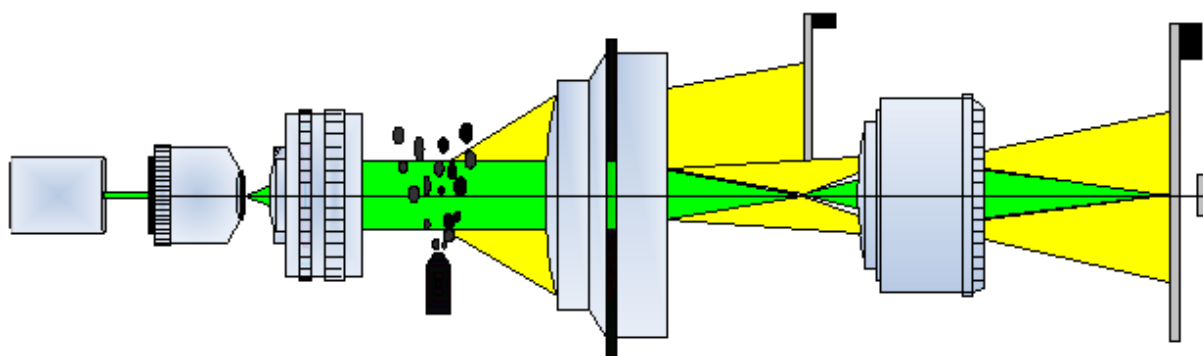
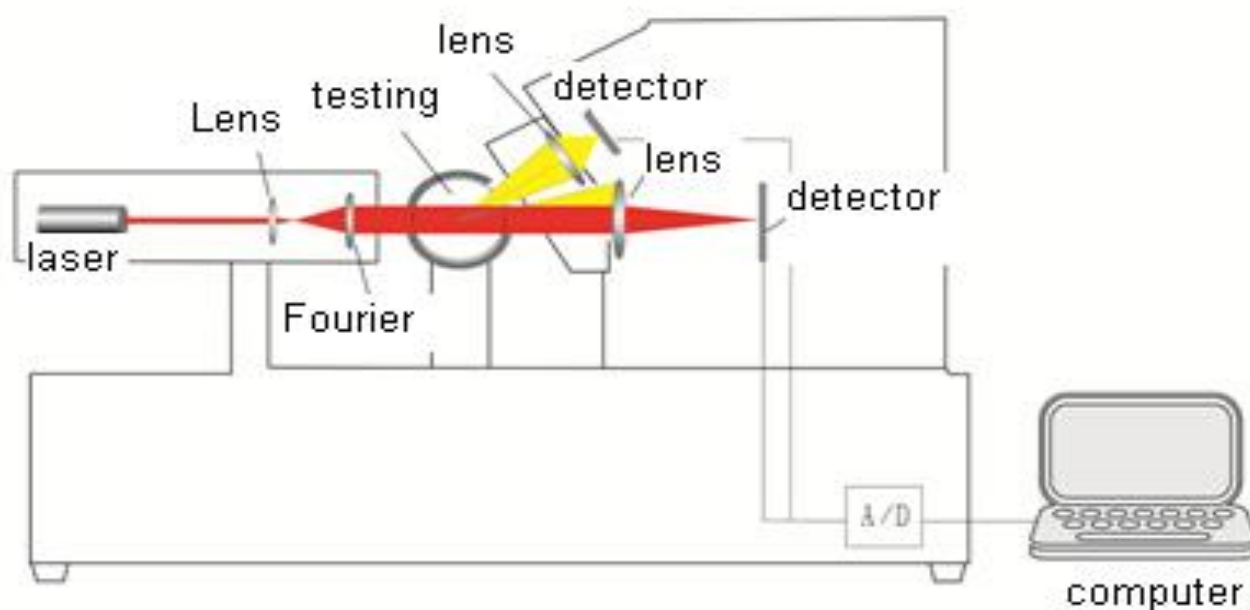
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INTRODUCTION

SPRAY-311XP desktop spray laser particle size analyzer is designed and developed specially for the droplet particle size distribution test of small spray equipment. It integrates several patent technologies including lens protection devices, it can measure droplets particles in the air without touch, it's mainly applied to medical atomizer, atomization medicine, various aerosol, spray, and other small spray equipment, especially suitable for the national pharmacopoeia for inhalation aerosol, spray, powder mist and other particle size testing requirements.



working schematic of spray particle size analyzer

SPRAY-311XP can be applied in a wide variety of fields, including droplets from injectors, pesticide spray, nebulizers, medicine nebulizer droplet, lotions, humidifiers, nozzle research and aerosol, mist separators, powder paint and various powders, etc., it is especially suitable for laboratories of enterprises, universities, and research institutes.



FEATURES

1) Unique optical path patented technology

Based on laser scattering principle, adopt a single beam of parallel light path and the dual-lens, dual-array detector technology to ensure high collection of scattering light at different angles, this extends the measurement limitations, improves the resolution of the instrument.

2) Unique air flow protection device

Airflow protection system can effectively protect the lens to avoid droplet pollution in the testing process, prolong the service life of the instrument.

3) Auto calibration: the multiple scattering automatic correction function be designed according to the spray field concentration ensures the accuracy and repeatability of the test results and can be adapted to the measurement of spray with different concentrations.

4) There are three software distribution modes, free distribution, R-R distribution, and Log distribution. It can meet the particle size testing of various industries.

5) Using the patented software analysis technology of free fitting, can truly reflect the particle size distribution data.

6) The desktop spray laser particle size analyzer is specially developed for the particle size requirements of inhaled aerosols, sprays, and powder aerosols in the pharmacopoeia. For testing, it integrates a variety of patented technologies, and it is the best choice for small spray particle size testing.

SPECIFICATIONS

Model	SPRAY-311XP
Standards	ISO13320:2009, GB/T19077-2016, Q/0100JWN001-2013
Size Range	0.1-100μm
Detector Channels	40 pcs
Accuracy Error	<3% (CRM D50)
Repeatability Error	<3% (CRM D50)
Light Source	semiconductor red laser $\lambda = 650\text{nm}$ $p > 1\text{mw}$
Feeding	open
Measurement Area Length	6cm
Dimension	L66 x W26 x H45 cm
N.W.	19 KG



REPORT DATA

Sample Information

Nozzle Name: 30501 50psi 6LPM (average) Style: Category:
 Delivery Co.: Delivery Date: 2024-5-8 Remark:

Testing Information

Instrument: Test Range: 0.1-100 Environment:
 Medium:
 Measuring Man: Measuring Time: 2024-05-08

Analyse Result (Analyse-Mode: Independent)

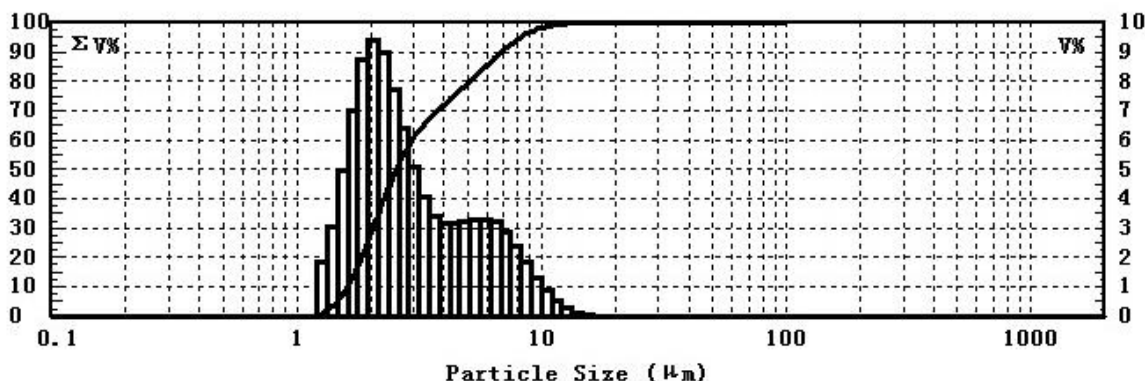
Xv10=1.620 μm Xv50=2.559 μm Xv90=6.862 μm X[4,3]=3.481 μm
 Xn10=1.340 μm Xn50=1.766 μm Xn90=2.573 μm
 Mass Con: 0g/m³ S/V=23084.330 cm²/cm³ Number Con: 1633968 /cm³
 Fit Error: 0.014 Optics Concentration: 123.5824 concentration: 0.008447%

Custom Analyse Result (Statistics-Mode: By Volume)

Xv50=2.559 μm Xv82=5.411 μm <1 μm : 0.000% <5 μm : 79.329%
 <12 μm : 99.497% <83 μm : 100.000%

Custom Analyse Result (Statistics-Mode: By Amount)

Xn50=1.766 μm Xn82=2.268 μm <1 μm : 0.000% <5 μm : 99.222%
 <12 μm : 99.998% <83 μm : 100.000%



d (μm)	V%	$\Sigma V\%$	d (μm)	V%	$\Sigma V\%$	d (μm)	V%	$\Sigma V\%$
1.212	0.000	0.000	2.873	6.384	58.018	6.813	3.193	89.795
1.334	1.818	1.818	3.162	5.091	63.109	7.499	2.885	92.681
1.468	3.051	4.870	3.481	4.037	67.146	8.254	2.386	95.066
1.616	4.958	9.827	3.831	3.388	70.534	9.085	1.814	96.880
1.778	6.980	16.808	4.217	3.162	73.697	10.000	1.292	98.172
1.957	8.721	25.529	4.642	3.155	76.852	11.007	0.859	99.031
2.154	9.425	34.954	5.109	3.208	80.060	12.115	0.509	99.540
2.371	8.966	43.920	5.623	3.257	83.317	13.335	0.266	99.806
2.610	7.714	51.634	6.190	3.285	86.602	14.678	0.125	99.931



Determine spray particles and spray droplets size distributions in real-time; with wide applications for sprays, mist, powders, droplets, and aerosols etc.



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