Winner-3008A/B Intelligent Dry Laser Particle Size Analyzer

1. Overview:

Winner3008 is intelligent dry laser particle size analyzer, manual and full automatic operation modes. MIE scattering principle as basic, Converging light Fourier transform light path, Highly stable He-Ne laser and High sensitive ring photoelectric detector,guarantee good repeatability and accuracy.

It use air as dispersion medium, and use turbulent dispersion principle with High precision feeding device, patent powder spray pump and oil-free silent gas source guaranteeing the samples to be fully dispersed. It's fit for any dry powder materials, especially the powder that takes chemical reaction with water or changes its shape in liquid. Compared to the wet laser particle size analyzer, It's with the same accuracy and repeatability.

2. Main Specifications:

Model	Winner3008A	Winner3008B
Standard	ISO 13320-1:1999；GB/T19077.1-2308；Q/0100JWN001-2013	
Principle	MIE Scattering Principle	
Measuring Range	0.1μm -2000μm	0.1μm -1200μm
Detector Channels Number	100 PCS	80 PCS
Accuracy error	<1%　　(Deviation of　D50 on national standard sample)	
Repeatability error	<1%　　(Deviation of　D50 on national standard sample)	
Light source	He-Ne laser (λ= 632.8nm,　P>2.0MW Service time>25000hour)	
Dispersion	Dry-turbulence dispersion mode, normal shock wave shear technique	
Operation Mode	Manual & Full automatic	
Feeding	Automatic vibration feeding	
Optical Calibration System	Automatic	
Software function	Analysis mode	Free Distribution, R-R Distribution, Logarithm Normal Distribution, Mesh number classification etc.
	Statistic Method	Volume Distribution, Quantity Distribution
	Statistic Comparison	Several Testing Results of samples Different batches of samples testing result, Samples before and after processing, Test result of samples in different time.
	User-defined Analysis	Figure out percentage according to the particle size Figure out particle size according to the percentage Figure out percentage according to the particle size range Meet demands of representation of particle test in different industries
	Test Report	Word, Excel,Photo(Bmp), Text etc
	Multiple language Support	Multiple language Support
	Intelligent operation	Better Repeatability after remove human-factor
Test Speed	<1min per time	
Power supply	220V	
Volume	L105cm×W44cm×H54cm	
Net Weight	58Kg	

3.   Main Features:

1) Advanced testing optical path.
Converging light Fourier transform light patented technology, make scattering light not be restricted to lens aperture. Use main detector and large angle auxiliary detector efficiently collect all angles of scattering light in the testing range, ensure good testing accuracy and reliability in the whole range.

2)Scientific dispersion system
Turbulence dispersion patented technology and Normal shock shearing effect, make particles sufficient dispersion, Adopt wearable ceramics improve dispersion system's working life.

3)Human-based operation mode
Manual and Full automatic, easy choose.

4)High precision-automatic optical path calibration system
It's composed of precise four phase hybrid stepper motor, Its inching precision is reach to micron level, so light path is always in a good state.

5)Intelligent data analysis-winner unique software support
Analysis software collect large quantity of particle information in high speed, and inverse particle distribution by unconstrained free fitting technology, then intelligent statistics and analysis of testing data, ensure accuracy and repeatability of the output.

6) The results not only show particle distribution,the cumulative value curve and typical particle sizes(D10, D50, D90.), but also support user-defined analyze result, such as any features particle diameter from D0 to D100,Cumulative percent(bigger than or less than a certain particle diameter).
7) Users can design the test report output and display forms according to industry requirements.

4. Application:

Winner3008 is widely used for cement, ceramic, medicine, dope, dye, padding, chemical products, catalyst, braize, dust, additive, pesticide, explosive, graphite, photosensitive material, fuel, metal and nonmetal powder, calcium carbonate, kaolin and other powder materials.

It has unique applicability and practicability, especially for those occurs chemical reactions, change shapes and loss in liquid, such as Chinese herbal medicine, magnetic materials and powder industry with wide distribution and large particle size.

5. Adopt patent technology:

- Optical bench design is protected by patent No.- ZL 2014 2 0378380.8,
- Optical bench alignment system is protected by patent No.- ZL 2013 2 0835882.4.
- Mie scattering principle application patent No.- ZL 2013 2 0812021.4.
- Dry particle size analyzer full sealed sample cuvette application is protected by patent No.-ZL.2011 2 0267646.8.
- Dual laser beam orthogonal application is protected by patent No.-ZL 2007 2 0025702.0
- Powder dispersion pump design application is protected by patent No.-ZL 2007 2 0018648.7
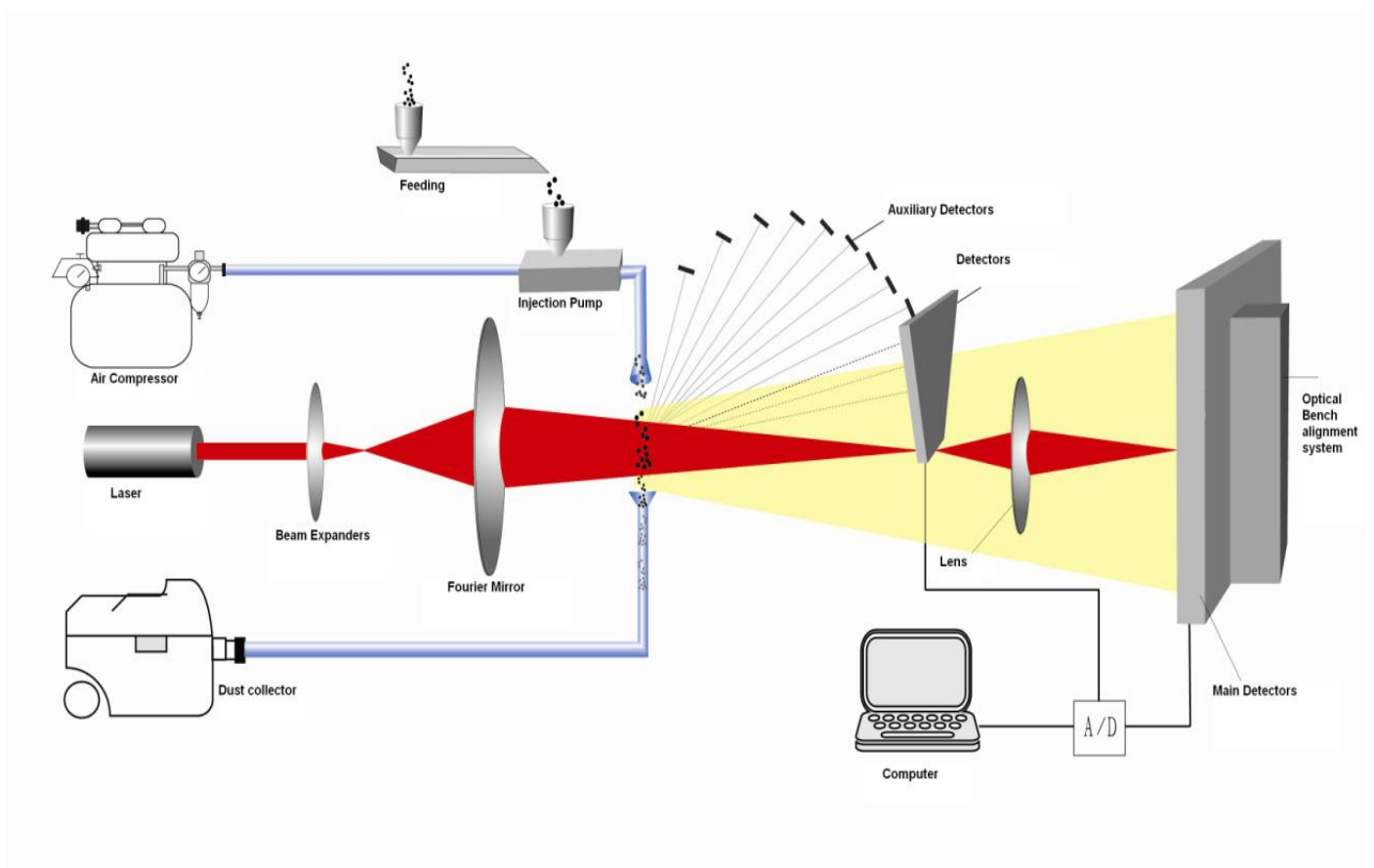
Address:
Building F, University science park, Licheng district, Jinan, Shandong, China.
Zip code:250100

Contact: MS. Cathy Feng
TEL:+86-136-9861-1832
FAX:+86-0531-88873392
Email:Jnwinner01@126.com