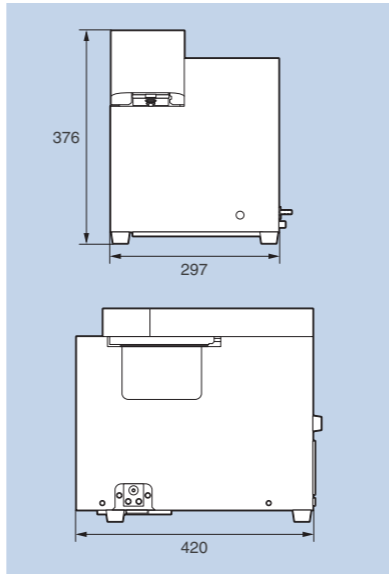


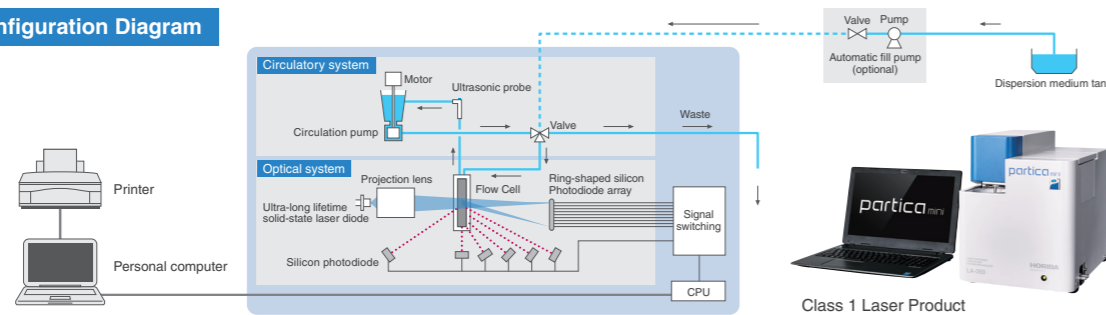
## Specifications

Measurement principle	Mie scattering and Fraunhofer diffraction
Analysis materials	Powders, slurries, emulsions etc.
Measurement output	Particle diameters and size distribution, size related theoretical calculated values
Size measurement range	0.1 - 1000 μm
Analysis time	Typical measurement takes about 10 seconds from "Measure" to display the result.
Measurement method	Wet method : liquid dispersed particles with the flow sampling system
Required sample amount	10 mg - 5 g (depending on the sample size, distribution and materials)
Wet flow system liquid volume	approximately 130 - 230 mL
Organic solvent compatibility	Available in solvent resistant flow sampling version or fraction cell system (optional)
Measurement performance guarantee	HORIBA selected standard material use conditional support.
Communication	USB 2.0
Operation conditions	15 °C~35 °C, 85% RH or less (non-condensing)
Power	AC100 - 240 V 50/60 Hz, 150VA
Dimensions	297 mm x 420 mm x 376 mm [W x D x H] (excluding the computer)
Mass	Approx. 23 kg
Optics	Light source : Laser diode 5 mW, λ=650 nm Analyzer Classification : Class 1A laser product Detectors : 64 ring detectors x 1 Silicon photo detectors x 6
Wet sampling system	Ultrasonic : Ultrasonic probe inside of the flow system, 7 step power adjustment Circulation pumping system : Centrifugal pump, 15 steps of speed control Drain : Solenoid valve Flow cell material : Bolosilicate glass
Optional accessories	Fraction cell, Auto fill pump, Solvent resistant circulation system

## External Dimensions (mm)



## System Configuration Diagram



**IMS** The HORIBA Group adopts IMS (Integrated Management System) which integrates Quality Management System ISO9001, Environmental Management System ISO14001, and Occupational Health and Safety Management System ISO45001. We have now integrated Business Continuity Management System ISO22301 in order to provide our products and services in a stable manner, even in emergencies.

**⚠ Please read the operation manual before using this product to assure safe and proper handling of the product.**

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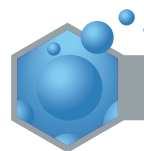


HORIBA's Laser Diffraction Particle Size Distribution Analyzer Partica mini LA-350 strikes a harmonious balance between high functionality, ease of use, low maintenance, and cost effectiveness.

Based on the advanced optical design of previous generations, the optimized design allows a compact optical bench, resulting in efficient use of bench space, while maintaining the resolution, accuracy and precision and resolution for which HORIBA analyzers are renowned.

## Laser Scattering Particle Size Distribution Analyzer

# partica mini LA-350

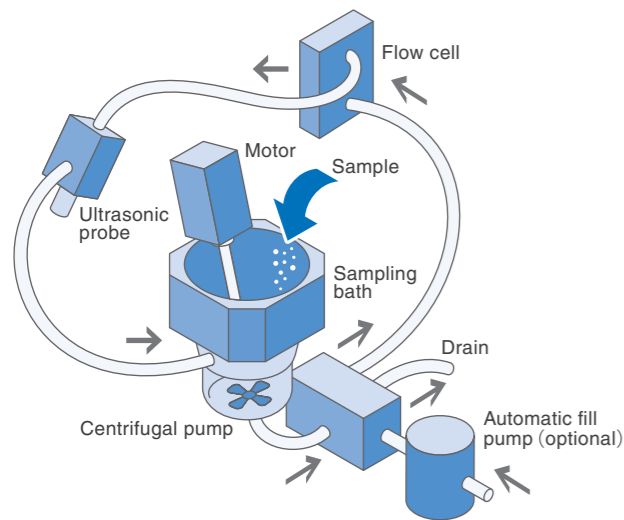


## Small and Powerful

The combination of an optical bench and a circulating pump in a single compact system is one of HORIBA's most popular designs. Now this design has a much smaller footprint, allowing you to move the analyzer from place to place. This is especially valuable in quality control situations where the sampling and analysis locations need to be separated to avoid contamination. It also takes up less space, allowing the instrument to be placed where it is needed.

### A Powerful & Versatile Circulation System

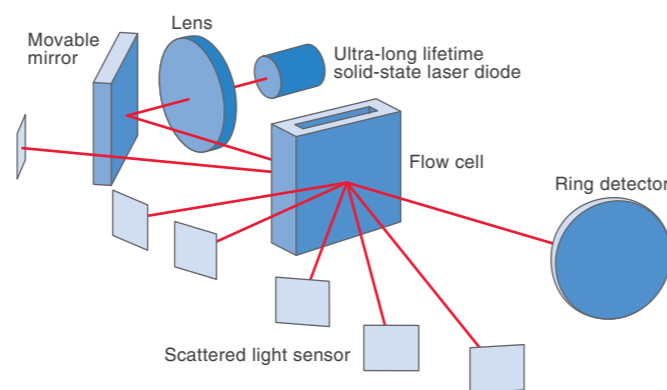
The automatic filling pump (optional) for user safety and convenience, also efficient and versatile sample circulation is suitable for all types of samples.



### A Stable & Reliable Optical System

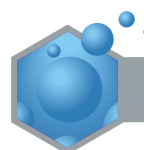
HORIBA's optical design features an instant automatic alignment function with blanking and sample measurement to ensure reproducible and reliable performance. This prevents human error in setup, allowing even a novice user to obtain accurate measurements.

The laser diode light source provides stable performance throughout the analyzer's long lifetime. The detectors, lens, and mirrors, which are the most sensitive components, are protected within the interior of the instrument. The design has been rigorously tested for durability and robustness.



### Readily Transportable

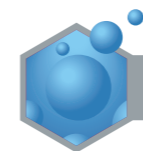
The ultra-compact design makes the Partica mini LA-350 ideal for situations where bench space is limited or when analysis at multiple sites is required.



## Exquisite Performance

The Partica mini LA-350 covers a wide range of sizes from 100 nm to 1000 microns. There is no compromise on performance despite its size.

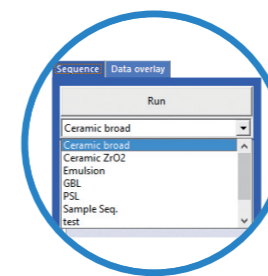
- Measurement accuracy support:  $\pm 1.4\%$  guaranteed data accuracy with specified NIST traceable standard materials.
- Conforms to ISO13320.



## Simple Operation

### Easy-to-use 3 Step Operation

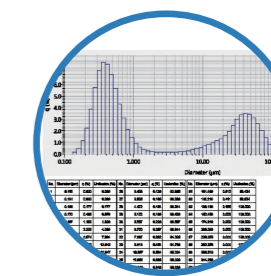
A single click selects the predefined methods and a second click performs the measurements. The system guides the user through the measurement, enabling stress-free analysis without advanced software knowledge. Additionally, the standard software provides flexible support for those users who want to change conditions and compare results with previous measurements.



1 Select the stored method from a drop-down menu



2 Liquid filling, sample introduction, rinsing



3 Generate report and collect your results

### An Intelligent Design for Easy Maintenance



#### The flow cell can be removed and replaced without any tools!

Routine cleaning or switching of flow cells couldn't be easier. Users may access and remove the flow cell in seconds without any tools being necessary.

#### Optional Accessories | Small Volume Fraction Cell

Ideal for situations when very little sample is available. Sample suspension maintained by magnetic stirrer.



### HORIBA Particle Characterization Analyzer Lineup



**Partica LA-960V2**  
Laser Diffraction Particle Size Distribution Analyzer



**ViewSizer 3000**  
Nanoparticle Tracking Analyzer



**nanoPartica SZ-100V2**  
Nanoparticle Analyzer



**Partica CENTRIFUGE**  
Centrifugal Nanoparticle Analyzer