

NANOVA

Nanova Environmental, Inc.

NovaTest™ P100

Portable 2D GC



- Smaller
- Lighter
- Faster
- Smarter



NovaTest™ P100 Portable 2D Gas Chromatography

The company

Nanova Environmental, Inc.

Nanova Environmental Inc. (NEI) is a subsidiary company of Nanova Inc. that provides advanced technologies, products, and services for environmental monitoring and environmental protection. We are proud to launch the very first portable multi-dimensional Gas Chromatography (GC)/PID system. Our goal is to continually improve our products beyond the industry standards with the help of our brilliant engineers and rigorous researches. Our vision is “Better Life Through Innovation”.



Nanova, Inc.

Founded in 2007 by a team of highly-trained researchers at University of Missouri - Columbia, Nanova Inc. uses extensive engineering experience to deliver tangible business results, enables our partners to profit from the advanced use of technology and research, shapes and leads the markets in which we choose to compete through constant improvement and innovation.

The Company

Learn about Nanova Environmental, Inc.

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NovaTest™ P100

Check out the remarkable renovation in gas chromatography.

Page 2

For Technicians

Learn the superiority with the technical data.

Page 5



- **2-Dimensional**

Most VOCs are separated in the primary column and detected by the primary PID. Using the P100, those co-eluted VOCs that cannot be separated by the primary column will be automatically 'heart-cut' and reinjected to the secondary columns having different separation mechanisms for further analysis.

- **Modular**

The quantity and type of the columns and detectors are highly flexible to change/upgrade based on the applications and customer needs.

- **User-friendly**

Streamlined software minimizes users' operation, rapidly and reliably identifies VOCs, calculates concentrations, and generates instant test reports in the field.

- **Powerful**

The Multi-dimensional design plus unique Microfluidic pre-concentrator and detector system greatly improves the detection limit (down to the sub-ppb level) and extends the analysis capability (more than 50 VOCs).

- **Portable**

P100 has a compact size of 14 in x 12 in x 6 in (36 cm x 30 cm x 15 cm) and weighs less than 15 lb (7 kg) to be easily carried for tests anywhere. There is also a carrier case for you to pack everything.

- **Efficient**

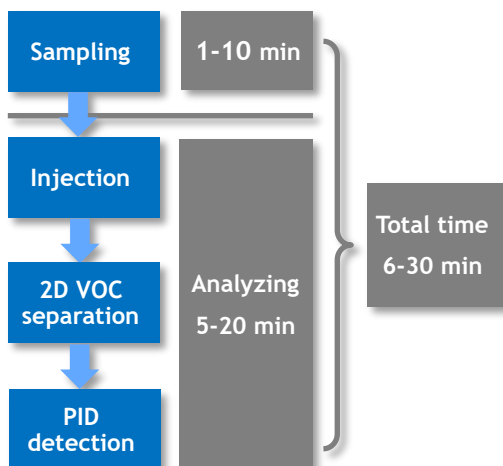
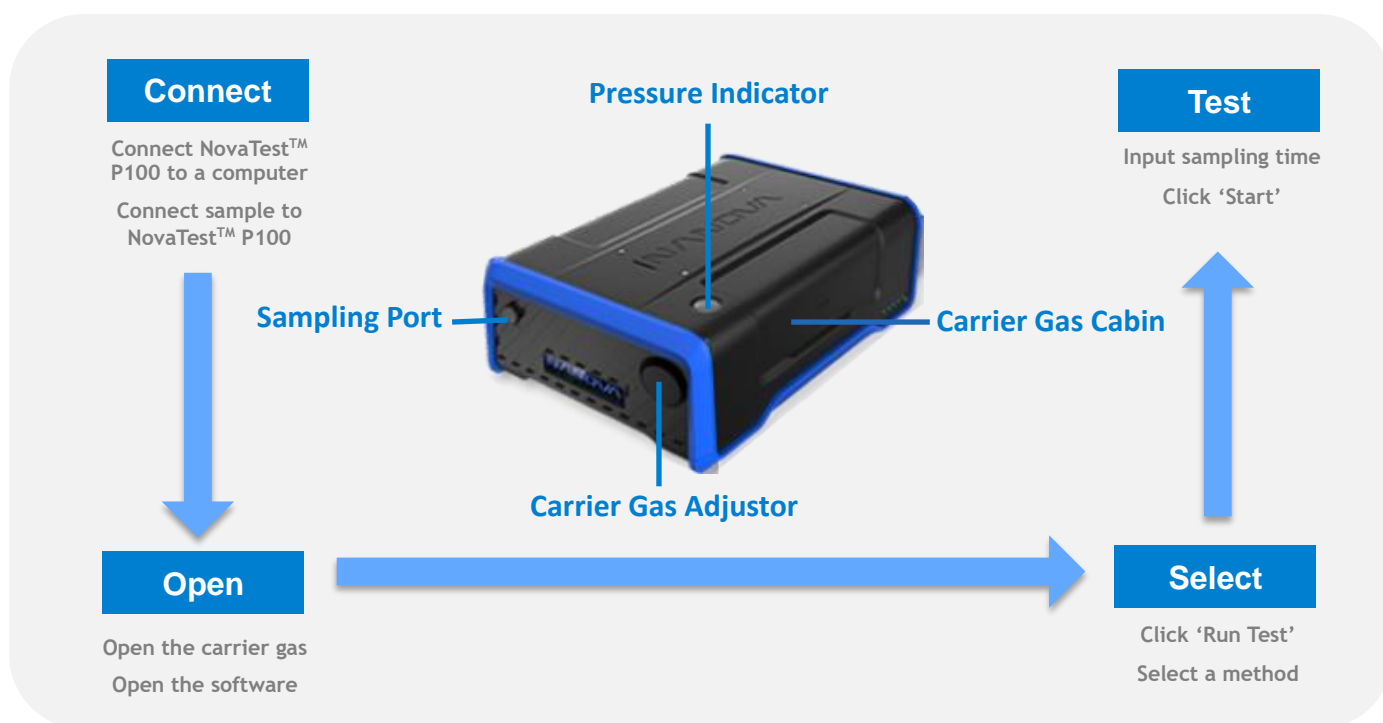
Our notable P100 is capable of completely separating and accurately analyzing tens of VOCs within several minutes. For certain analytes, the analysis time can be less than 60 seconds.

Minimum Operations with Available Methods

The system is fully automated to allow minimal user input to operate. Testing can be initiated quickly and easily using the available methods based on the needs of the target applications. This allows for anyone to effectively use the P100 system without having to be well-versed in GC theory. Straightforward instructions along with streamlined software will generate an intuitive report with the detected gases as well as their respective concentrations and masses.

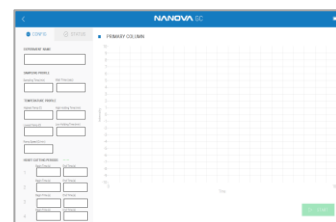
Available Methods	Target Gases
TVOC	Total volatile organic compounds
BTEX	Benzene, toluene, ethylbenzene, xylenes
MTBE	Methyl tertiary butyl ether
TCE/PCE	Trichloroethylene, perchloroethylene
Malodors	Ammonia, carbon disulfide, dimethyl sulfide, dimethyl disulfide, hydrogen sulfide, methanethiol, styrene, trimethylamine
Vehicles	Acetaldehyde, acrolein, benzene, ethylbenzene, styrene, toluene, xylenes
Environment	1,1,2,2-tetrachloroethane, dichloroethene, dichlorobenzene, trimethylbenzene, 1,2,4-trichlorobenzene, 1,2-dibromoethane, 4-ethyltoluene, allyl chloride, benzene, benzene chloride, chlorobenzene, BTEX, tetrachloroethylene, trichloroethylene
Pollution	1-decene, 2-heptanone, 2-nonanone, 3-pentanone, acetone, anisole, benzaldehyde, butyl acetate, BTEX, cyclopentanone, ethyl acetate, heptane, hexamethyldisiloxane, hexane, isopropanol, methoxy-2-propyl acetate, styrene
Water	Dichlorobenzene, chlorobenzene, dichloroethylene, dichloromethane, isopropylbenzene, styrene, tetrachloroethylene, trichloroethylene, BTEX
Customization	Welcome to contact us to set personalized methods only for you!

Test Within 4 Simple Steps



Customized Tests

Users can also customize and run their own methods using the 'Advanced Test' function for any specific application. This function provides customers with high flexibility to adjust any parameters of the system. Experienced GC users are welcome to use this function.





NovaTest™ P100 Portable 2D Gas Chromatography

Monitor Anything With NovaTest™ P100

NovaTest™ P100 Test Options	Typical Applications	Relating Standards/Regulations
Available Methods	Indoor air quality and in-vehicle air quality Airplane and airport air quality Petrochemical production Gasoline production lines VOCs from dry cleaning VOCs from metal degreasing Industrial discharges, sewage, trash burning Industrial working area air quality Living area air quality Office and store air quality Accident area air quality Underground water quality and drinking water quality Etc.	US EPA AIM VOC Rule NAAQS SCAQMD 11XX Rules OTC NSPS CTG ATC NESHAP
Advanced Test	Professional tests based on users' targets.	
Customizable Methods	Any quick test Available the system with customers' requirements.	

Specification

Size	14 in x 12 in x 6 in (36 cm x 30 cm x 15 cm)
Weight	15 lb (7 kg)
Detector	10.6 eV PID or 11.7 eV PID
Column	1D: Rtx [®] -1 (6 m) or customizable 2D: Supelcowax [®] 10 (2.4 m) or customizable
LOD	~10 ppt per liter air sample (Benzene)
Precision	±3%
Linearity	10 ⁶
Sampling Method	Auto sampling
Operating Temp. Range	5 - 40°C
Programmed Column Temp.	Room temperature – 200°C
Temp. Stabilization	Yes
Relative Humidity	0% - 95% (non-condensing)
Filter	0.22 µm, initial pack provided, available online
Carrier Gas	Helium in cartridge, initial pack provided, available online
Data Transition	USB cable
Power	24 VDC, 110 - 240 VAC, adapter provided
Battery	Li-ion polymer, >8 hour
Software	NovaSys V1.0
Available Methods	TVOC, BTEX, MTBE, TCE/PCE, Vehicles, Malodors, Environment, Pollution, Water, or customizable
IP Rating	IP53
Explosion-Proof	Class I, Zone 1, AEx ia IIABCD T2 (TBD)
Carrier Case	22 in x 14 in x 9 in (56 cm x 36 cm x 23 cm)

Learn more at www.nanovaenv.com

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