

NANOVA

Nanova Environmental, Inc.

NovaTest™ P100

Portable 2D GC



- Smaller
- Lighter
- Faster
- Smarter

NANOVA

NovaTest™ P100 2D Portable 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 2D 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 research. Our mission 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



- **Portable**

NovaTest™ P100 has a compact size of 14 in x 12 in x 6 in and is less than 15 lb to be easily carried out for tests anywhere. There is also a carrier case for you to pack everything.

- **Quick**

Our notable NovaTest™ P100 analyzes 26 VOCs effectively within 15 minutes. It is capable to fulfill an analysis within as quickly as 6 min. This saves you at least time for a cup of Coffee.

- **Accurate**

The detection limit of NovaTest™ P100 reaches 1 part-per-trillion for benzene. In another word, it can detect 1 benzene molecule in 10^{12} other molecules.

- **Smart**

It is very common that some VOCs are too affinitive to be eluted, while the multi-dimension system of NovaTest™ P100 is smart enough to make the separation possible with its 2D system.

- **Extensive**

The quantity and type of the columns and detectors are highly flexible to change according to the testing demand of our customers.

- **Compatible**

System of either dimension can be used as a GC of single dimension for simple tests according to the different separation mechanisms.

- **Stable**

Auto-cleaning system is employed to prevent problems such as contaminations, system aging, or inferences by residuals from previous tests. This saves you another 5 minutes for coffee.

- **Capable**

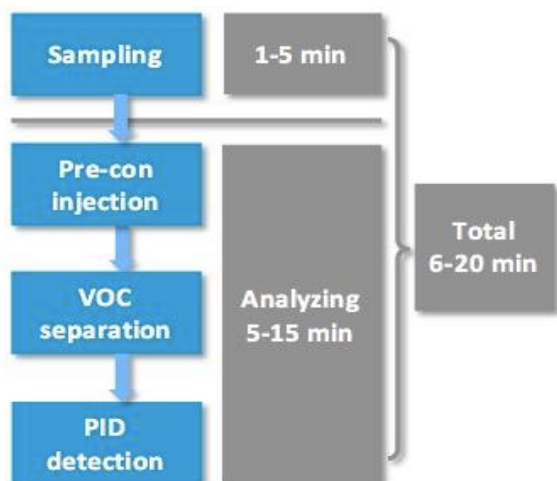
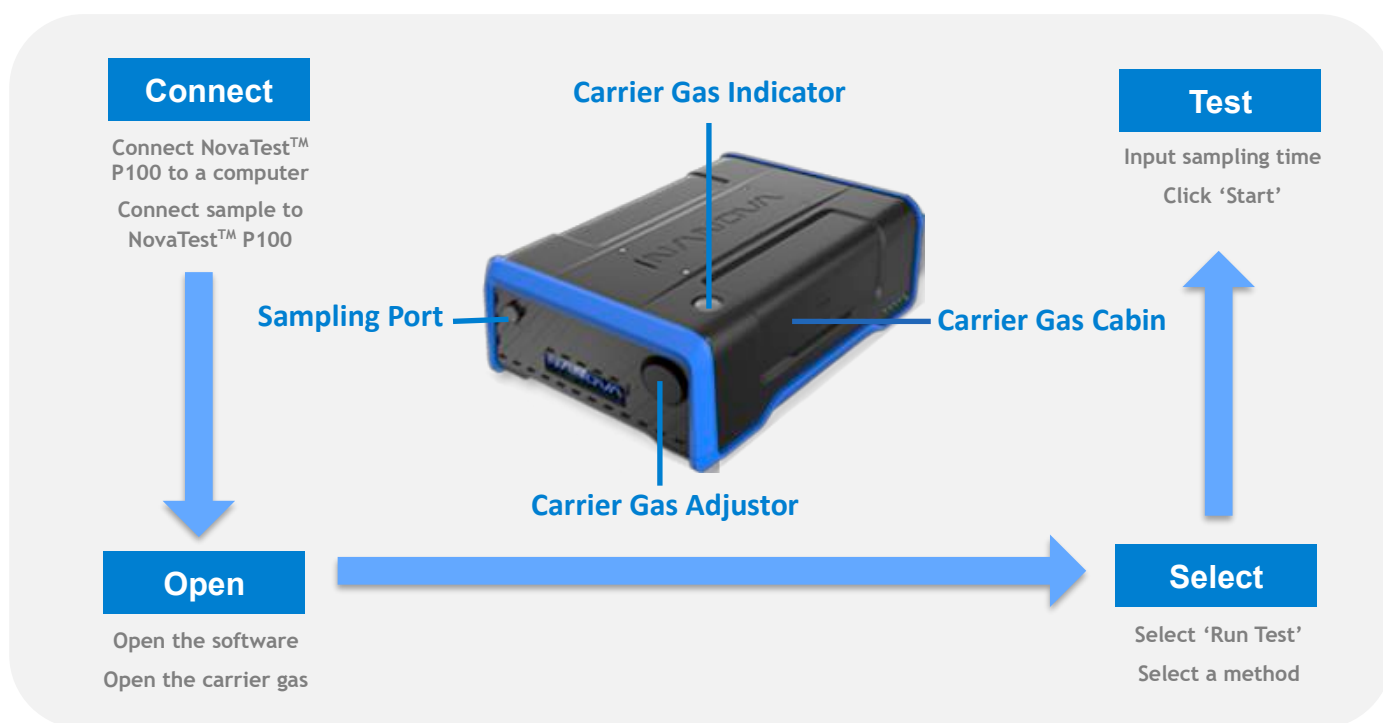
Unlike may other product in market, NovaTest™ P100 can efficiently detect more than 50 VOCs instead of responsive to only a specific chemical or chemical group. Customers are able to run tests in different circumstances with only 1 device.

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. Simplistic instructions along with streamlined software will generate an intuitive report with the detected gases and their respective concentrations.

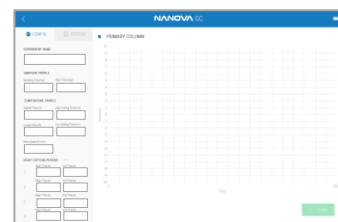
Available Methods Options	Gases To Be Detected
TVOC	Total volatile organic compounds
BTEX	Benzene, toluene, ethylbenzene, xylenes
MTBE	Methyl tertiary butyl ether
TCE/PCE	Trichloroethylene, perchloroethylene
Malodors	Ammonia, carbon disulfide, dimethyl sulfide, dimethyl disulfide, hydrogen sulfide, methanethiol, 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 available 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. Those with professional GC theory and experience are welcome to use this function.





NovaTest™ P100 2D Portable Gas Chromatography

Monitor Anything With NovaTest™ P100

NovaTest™ P100 Method Options	Typical Applications	Relating Standards/Regulations
Available Methods	Indoor air quality and in-vehicle air quality Airplanes and airport air quality Coke oven gases monitoring Petrochemical goods 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 Offices and stores 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.	
Customized Available Methods	Any quick test Available the system with customers' requirements.	

Specification

Size	14 in x 12 in x 6 in
Weight	15 lb
Detector	10.6 ev PID or 11.7 ev PID
Column	1D: Rtx®-1 or customize 2D: Supelcowax® 10 or customize
LOD	1 ppt (Benzene)
Precision	± 3% (TBD)
Linearity	10 ⁶
Sampling method	Auto sampling
Operating Temp. Range	5 ~ 40°C (TBD)
Programmed Column Temp.	R.T. ~ 200°C
Temp. compensation	Yes
Relative humidity	0% ~ 95% (non-condensing)
Filter	0.1 µm, initial pack provided, back-up order available online
Carrier gas	He in Available gas bottle, initial pack provided, back-up order available online
Data trans.	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 Customize
IP rating	IP53
Explosion-proof	Class I, Zone 1, AEx ia IIABCD T6 (TBD)
Carrier case	22 in x 14 in x 9 in

Learn more at www.nanovaenv.com

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