

# VOYAGER

Photovac is **MORE**  
than instruments.



Institut za preventivu  
zaštitu na radu, protivpožarnu zaštitu i razvoj d.o.o.

Precizna merenja mobilnim gasnim hromatografom!



Photovac delivers  
**PROVEN** solutions.



21000 Novi Sad • Kraljevića Marka 11 • tel/fax: 021 / 420-571, 420-572, 420-573  
institut@izp.rs • www.izp.rs

PORTABLE GAS CHROMATOGRAPH

## CHROMATOGRAPHY

T O G O



Completely self-contained and convenient to carry, Voyager provides flexibility of analysis, ease of use, and reliable results. Voyager is rugged and water-resistant to handle the toughest environments.

### Enjoy the power, performance and rugged reliability

Many unique engineering and design features make the Voyager the most technologically advanced GC in the world. Voyager's powerful analytical engine is composed of a built-in three-column configuration with an isothermal oven for fast GC analysis for up to 40 factory-programmed EPA listed VOCs. With a miniaturized PID/ECD dual detection system, it's easy to see why the Photovac Voyager is truly unique.

### Save valuable time with easy on-site sampling and analysis

With its built-in refillable carrier gas cylinder and rechargeable, field replaceable battery pack, the Voyager can operate independently on site for up to eight hours. Chromatograms and/or tabular results are easily viewed in the field using the built-in backlit LCD screen. Voyager's data logging stores a full day of field results, which can conveniently be uploaded to a PC in the field or office using Photovac SiteChart software.

### Use it almost anywhere

Voyager is compact, lightweight (15 lbs./6.8 kg) and ergonomically designed for field use. Carry it by the padded handle, the shoulder strap, or have both hands free for climbing ladders or catwalks using the specially designed harness.

### Choose the best sampling option

Inject gaseous samples manually by syringe or just point and press to use the built-in pump and sampling port. The pump can even be set to sample at predefined intervals to create a time-history profile of concentration levels for site-specific compounds.

### Simplify operation with preconfigured assays

Every Voyager is delivered with your choice of one or more application assays. Each assay automates the setup of the instrument operation conditions and compound library. With Voyager, running an assay and collecting data is as simple as press and go.

For more power, performance and portability, the  
**Photovac Voyager** is the clear choice.

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## Solutions



- VOCs in waste streams
- Stack gases
- Workplace air monitoring
- Fenceline monitoring
- Spill characterization
- Off-line process system monitoring
- Nuisance odor characterization
- HazMat
- Solvent storage and piping
- Superfund cleanup
- Confined space pre-entry
- Underground storage tanks (UST)
- Transportation vessels
- Emergency response
- Storage tank maintenance
- Environmental site characterization
- Plume characterization
- Ambient air monitoring
- Groundwater monitoring
- Soil gases; SVE systems
- OSHA Compliance
- EPA Compliance

# INDUSTRIES

&

## Applications

**Surfactants and Sterilants (Assay #6)**  
Ethylene oxide, propylene oxide

**Latex Polymers (Assay #7)**  
Methyl acrylate, ethyl acrylate, isobutyl acrylate, n-butyl acrylate, methyl methacrylate, acrylic acid, vinyl acetate, ethylene, styrene

**Chemicals**  
Various volatile organic compounds (VOCs), chlorinated solvents

**Pharmaceutical**  
Methylene chloride, acetonitrile, chloroform, acetone, toluene, hexane, methyl ethyl ketone, isopropanol, xylene and methane

**Agricultural Fumigants**  
Phosphine, bromomethane, sulfuryl fluoride

**Indoor Air Quality**  
Acetone, benzene, chloromethane, ethanol, n-hexane, m-xylene, p-xylene, 2-propanol, toluene, 1,1,1-trichloroethane

**Adhesives**  
Toluene, acrylate esters, industrial solvents

**Environmental (Assay #1)**  
Forty VOCs, including those listed in U.S. EPA Methods 8240 and TO-14

**Petrochemical/Refining (Assay #2)**  
Methanol, ethanol, methyl t-butyl ether (MTBE), t-amyl methyl ether (TAME), benzene, toluene, ethyl benzene, m-xylene, o-xylene

**ABS Rubber (Assay #4)**  
Acrylonitrile, styrene, 1,3-butadiene

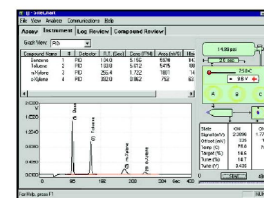
**Pulp and Paper (Assay #5)**  
Hydrogen sulfide, methyl mercaptan, ethyl mercaptan, methyl ethyl ketone (MEK), dimethyl sulfide (DMS), dimethyl disulfide (DMS), alpha-pinene, methanol, acetone

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## SiteChart Software



By using PerkinElmer Photovac SiteChart software, all assays are easily customized for specific applications. Additional compounds can be added to the assay. Customized, site-specific application assays are readily saved, reloaded, and reused.

SiteChart Software uses a PC or laptop for data storage, data manipulation, and Application Assay customization.

For further information on Photovac products, or to arrange a product demonstration, please contact a Photovac representative near you, email us at [admin@photovac.com](mailto:admin@photovac.com) or contact Photovac, Inc.



PHOTOVAC, Inc. 176 Second Avenue | Waltham, MA 02451-1166 USA | Phone: 781-290-0777 Fax: 781-290-4864  
PHOTOVAC Europa Bredabaan 885 | B-2170 Antwerp BELGIUM | Phone: 011-32-3-646-0456 Fax: 011-32-3-646-0095  
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## Specifications

**Size**  
15.4" (39 cm) long, 10.6" (27 cm) wide, 5.9" (15 cm) high

**Weight**  
15 lb. (6.8 kg) with battery installed

**Keypad**  
4 fixed function keys and 4 menu keys

**Display**  
128 x 64 element graphical LCD with backlighting

**Battery Capacity**  
NiCd replaceable packs, extended life battery to power Voyager™ for up to 8 hours depending on ambient and column temperature

**Serial Output**  
RS-232, 9600 baud for connection to Windows™ based PC and communication to Voyager SiteChart software

**Detectors**  
Photoionization detector with quick-change electrodeless discharge UV lamp, 10.6 eV (standard) Electron Capture Detector (optional)

**Alarm Output**  
Internal audio - 85 decibels  
Alarm LED

**Operating Temperature Range**  
41°F to 105°F (5°C to 40°C)

**Operating Humidity**  
0-100% Relative Humidity (non-condensing)

**Operating Concentration Range**  
Low detection limits are dependent on compound monitored. Typical low detection limits are 5 ppb to 50 ppb. Consult your representative for further information.

**Power**  
10-18 VDC, 115 or 240 VAC, adapter provided

**Intrinsic Safety**  
Class I, Division 1, Groups A, B, C, & D  
Zone 1 locations, Ex ib IIC T4, Demko No. 970 121 971