ChemProX

New Generation Handheld Chemical Detector

MEASURING

OK

CWA

- Wireless connection network with GPS information
- Built-in simulation mode for training
- Proven and enhanced technology

Environics

WE SENSE & DETECT FOR A SAFER WORLD

ChemProX'perience
On The Field Like Never Before

"ChemProX is absolutely the best chemical detector I have ever used. It's easy, simple, and logical."

CBRN Sergeant
Finnish Defence Forces

Only fictional heroes accomplish missions alone. In an era where communication and connectivity became inherent to most of trivial daily tasks, ChemProX emerges as a contemporary tool, providing a simple, smooth, and effective experience. ChemProX enables any team to detect and classify CWA's and TIC's.

ChemProX belongs to a new generation of chemical detectors, enabling full situational-awareness during field operations. Developed together with First Response professionals and based on a 30-year experience, ChemProX is a device of its time, with an intuitive User Interface.

Operators are not alone in the field, therefore shared real-time location and detection information between the team members and the Command Centre can be crucial for a successful result.

KEY FEATURES

- Wide range of detectable chemicals (CWA/TIC)
- Wireless network connectivity
- Built-in GPS and group location
- Simulation training mode
- Chemical database and instructions
- Optimized usability
- Lowest maintenance costs in its class

APPLICATIONS

- Hazardous area perimeter definition
- Battlefield detection and monitoring
- Chemical reconnaissance and surveillance
- Locating leaks and faulty containers
- Transportation hubs monitoring
- Customs and border control
- Mass and VIP events security

Connectivity

ChemProX is the only chemical detector of its class which allows for real-time full situational-awareness. Its detection network is expandable up to 10 detectors per group, and featuring a secure data transmission by radio, which is complemented and expanded by a WIFI connection.

ChemProX establishes the communication between each team member and the Command Centre.

Training

ChemProX features a double usage possibility for both real and simulated situations, discarding the need for extra training devices or expensive simulators. ChemProX has a built-in simulation mode, allowing different kinds of realistic training scenarios without endangering the users.

A chemical alarm can be triggered using Bluetooth sources, and more complex simulations can be created using Mobile C&C and Training Software.

This software allows the instructor to create alarms to his team and mark areas of the map as hazardous zones.

Proven Technology

ChemProX is an orthogonal detector, with its core technology based in Environics' 30-year experience on chemical detection and classification. This chemical detector's performance relies on an unique and enhanced open-loop Ion Mobility Spectrometry (IMS) technology.

Basing its reliability in this proven technology, ChemProX benefits from new additional sensors which reduce the false alarm rate of the detector, and allows the detection of an even wider range of chemical agents.
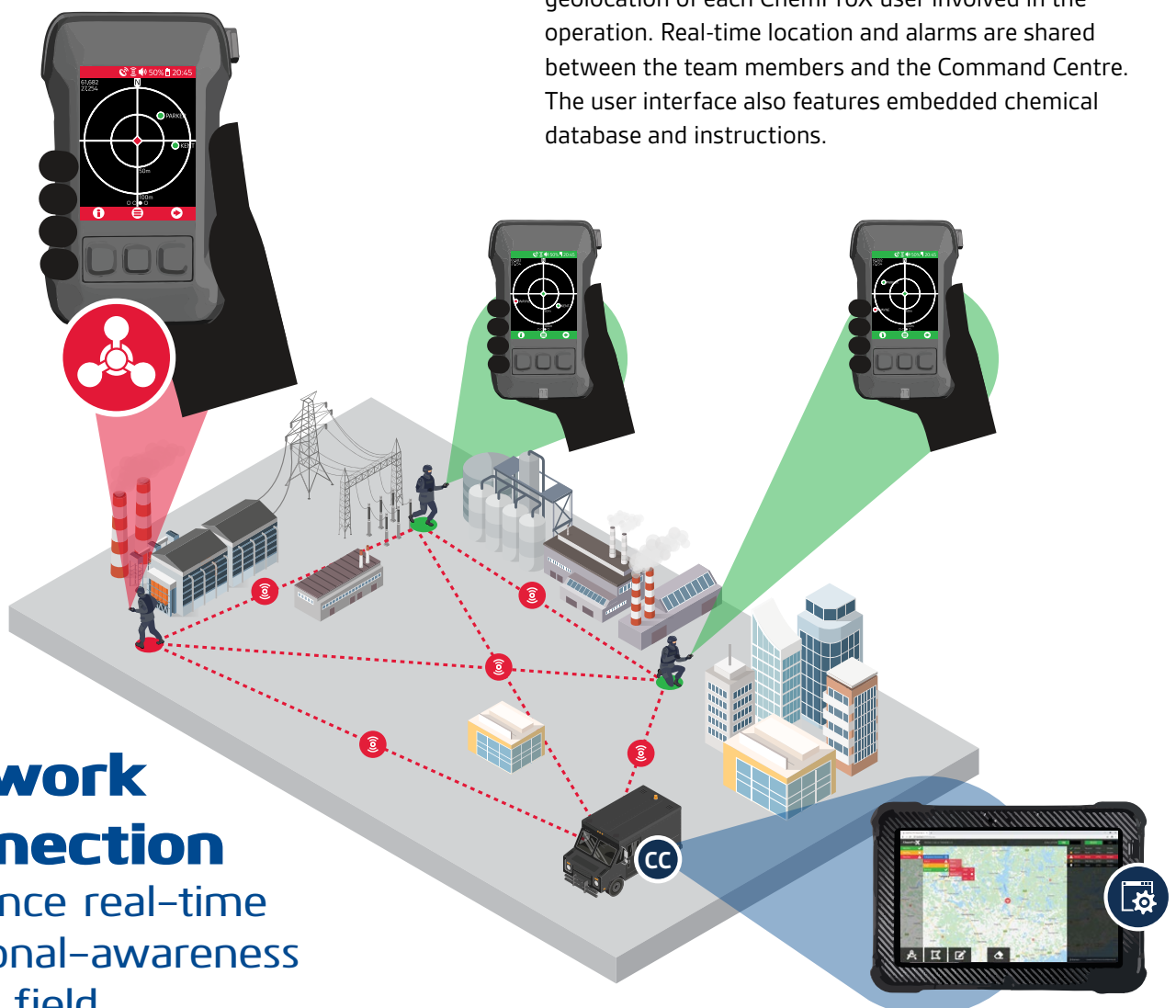
UI with Unique Trend Display

Get ready to experience the ease-of-use of a new generation device. Designed by experts, targeted to common users, ChemProX's user interface is graphical and intuitive.

ChemProX features an unique real-time trend display which allows for chemical surveillance, warning the operator for areas with higher concentration of hazardous compounds, even before it reaches alarm triggering levels.

Using the GPS sign, the user interface also displays the geolocation of each ChemProX user involved in the operation. Real-time location and alarms are shared between the team members and the Command Centre. The user interface also features embedded chemical database and instructions.

Network Connection

Xperience real–time situational–awareness on the field

ChemProX

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Technical Data

Size	Approx. 160 x 100 x 50 mm (6.3"L x 3.9"W x 2"D)	**Humidity**	0-95% non-condensing MIL-STD-810G
Weight	Approx. 770 g (27 oz.) (w/Li-Ion battery)	**Dust & Water Resistance**	MIL-STD-810G Blowing sand, dust, and water immersion when inlet is closed
Detection Technology	Orthogonal detection using: • Open-loop (aspirated) IMS cell • Multiple semiconductor sensors	**Shock & Vibration Resistance**	MIL-STD-810G Highly resistant to shock and vibration Drop resistance 1,22m
Detection Modes	CWA, TIC	**EMI/RFI Interference**	MIL-STD-461G / MIL-STD-1275D
Training	Built-in training mode		
Connectivity	WLAN, WPAN, Radio Data USB memory stick Ethernet (optional accessory) Up to 10 device per group with radio data	**Additional MIL–STD Compliance**	Tested against relevant parts of MIL-STD-810G, MIL-STD-461G, MIL-STD-1275D*
Battery	Easily interchangeable Li-Ion rechargeable and commercial available alkaline (3xAA) packs Battery hotswap with power bank	**Other Features**	User adjustable data logging ChemProX Interface Software Team display Agent database Rapid response instructions
Operating Hours	Up to 8 hours		
Battery Recharge Time	Approx. 5 hours (with standard mains power charger)	**Warranty**	1-year standard warranty Extended and comprehensive warranties available
Power	110 – 250 VAC, 50 – 60 Hz	**SAK (Standard Acessories Kit)**	Confidence Check Tube 2 Li-ion Batteries Carrying Pouch Transit Case 3 Filters 3 Rain Caps 3 Sampling Tubes (Monitoring tubes) Mobile C&C and Training Software USB Power Charger USB Stick Adapter Cable
User Interface	3,5" Full color graphical LCD display and 3 operation keys		
Sampling	Internal pump with continuous airflow		
Calibration	No calibration is required, only a simple confidence check		
Temperature (Operating)	-32 °C to 55 °C (-25.6 °F to 131 °F) MIL-STD-810G		
Temperature (Storage)	-46°C to 85 °C (-50.8 °F to 185 °F) MIL-STD-810G	**Optional Accessories**	Bluetooth Training Sources (Nerve, Blister, Blood, Toxic) Battery pack (AA)
Alarm Indication	Audible alarm Visual alarms (display / LED)		

* Full list of conducted tests available on request

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