

# HAZ-SCANNER™

## Model HIM-6000

### Complete Air Monitoring Station



**ENVIRONMENTAL**



Myriad Electronic Solutions Inc. d.b.a. ES Canada  
151 W Hastings, Vancouver, BC, V6B 1H4



Tél. 778-652-2717



e-mail : [info@es-canada.com](mailto:info@es-canada.com)  
Site Web : [www.es-canada.com](http://www.es-canada.com)



## Build Your Own a HAZ-SCANNER HIM-6000 to fit your applications. Use the convenient pre-checklist below!

### Start with:

☐ HIM-6000 EPA Criteria Air Pollutants

- Carbon monoxide
- Nitrogen dioxide
- Particulates (PM)
- Ozone
- Sulfur dioxide

### OR:

☐ HIM-6000 Basic Kit

- PM10 or TSP particulates
- Nitrogen dioxide
- Carbon monoxide

Add up to 9 sensors/meters

### OR:

☐ HIM-6000 Build Your Own System Kit

Add up to 12 sensors/meters

**Choose up to 2 particulates sensors (infrared light scattering). If ordering Basic Kit or EPA Kit select 1 additional particulate sensor.**

☐ PM1.0 ☐ PM2.5 ☐ PM10

**Choose up to 6 interchangeable gas sensors (8 for Build Your Own)\***

- ☐ Ammonia (HSEC\*\*)
- ☐ Carbon dioxide (NDIR)
- ☐ Carbon monoxide (HSEC)
- ☐ Chlorine (HSEC)
- ☐ Ethylene oxide (HSEC)
- ☐ Hydrocarbon: methane-specific (NDIR)
- ☐ Hydrocarbons: non-methane (NDIR)
- ☐ Hydrogen chloride (HSEC)

- ☐ Hydrogen cyanide (HSEC)
- ☐ Hydrogen sulfide (HSEC)
- ☐ Nitric oxide (HSEC)
- ☐ Nitrogen dioxide (HSEC)
- ☐ Oxygen (HSEC)
- ☐ Ozone (metal oxide semiconductor)
- ☐ Phosphine (HSEC)
- ☐ Sulfur dioxide (HSEC)
- ☐ VOCs (PID)

### Choose up to 4 Meters Meteorological

- ☐ Wind Speed & Direction
- ☐ Precipitation
- ☐ Temperature
- ☐ Relative Humidity
- ☐ Barometric Pressure
- ☐ Dew Point

### Additional Optional Meters

- ☐ Sound/Noise (Type 2 SLM)
- ☐ Atomic/Nuclear radiation (Geiger counter)
- ☐ ELF radiation (single-axis probe)
- ☐ Heat Stress
- ☐ UV/Solar Radiance

### Wireless Communication

- ☐ Network up to 8 Systems with remote Global Access
- ☐ 900 MHz RF
- ☐ Wifi 2.4/5GHz
- ☐ Cellular GSM/LTE

\* Barometric pressure sensor applies toward both the gas sensor count and the meter count.

\*\* HSEC stands for High Sensitivity Electrochemical Sensor.

## Contact an EDC Specialist Today!



800.234.2589

[HazScanner.com](http://HazScanner.com)



ENVIRONMENTAL  
DEVICES CORPORATION



Myriad Electronic Solutions Inc. d.b.a. ES Canada  
151 W Hastings, Vancouver, BC, V6B 1H4



Tél. 778-652-2717



e-mail : [info@es-canada.com](mailto:info@es-canada.com)  
Site Web : [www.es-canada.com](http://www.es-canada.com)

# Portable. Affordable. Reliable.



## Complete Air Monitoring Station

The **Haz-Scanner™** measures and documents trace level (**ppb**) gas, particulates & meteorological parameters in real-time calibrated to **US EPA & EU** directives. Configure up to 12 sensors with **true simultaneous PM-2.5 and PM-10** readings.



## Custom Sensor Calibrations to Meet Your Needs

Build your own system to your specific application(s).



## Remote Wireless Networking

Interface multiple systems 24/7 with cell phone alerts & remote global access to data with or without Cloud-based subscriptions.

## Power Options

HIM-6000 can be powered by Battery, AC, or Solar.



## Sample Pump Option

Remotely trigger two external SKC Sample Pumps for bag or tube analysis with a user-defined threshold.

*“The combination of tracking baseline chemical vapor conditions, local meteorological information and the ability to collect samples immediately for analysis, using our most sensitive laboratory methods, provides enhanced capabilities to detect chemical vapors closer to workers, with faster response and with greater accuracy.”*



Myriad Electronic Solutions Inc. d.b.a. ES Canada  
151 W Hastings, Vancouver, BC, V6B 1H4



Tél. 778-652-2717



e-mail : [info@es-canada.com](mailto:info@es-canada.com)  
Site Web : [www.es-canada.com](http://www.es-canada.com)



## Features & Benefits

- Direct Readings
  - Up to 12 simultaneous air quality measurements
  - U.S. EPA criteria air pollutants
- Multiple options to customize your Air Monitoring Station
  - Flexible "Build Your Own" Air Monitoring Station to comply with any site specific requirements
- Configure to monitor PM-10, PM-2.5 & TSP simultaneously
- Real-time readings with data with storage capabilities up to 1 year
  - Optional wireless data transmission
  - Options include Ethernet, Wi-Fi, Cellular or RF connection for 24/7 access
- Easily portable & deployable
  - Battery or Solar operated
  - Network multiple Haz-Scanners to one central PC or Mac
  - Easy-to-use graph & reporting software compatible with PC & Mac
    - Data can be saved and exported via .csv file

The portable wireless HAZ-SCANNER™ HIM-6000 Hazardous Incident Monitor is easily deployed as an ambient air quality monitor to scan, measure, and document critical EPA criteria pollutants including nitrogen dioxide, carbon monoxide, sulfur dioxide, ozone, carbon dioxide, particulates, VOCs, and more. The HAZ-SCANNER provides direct readings in real time with datalogging capabilities. The graph and reporting software is compatible with PC and Mac.



## SELECT DIFFERENT SENSOR DETECTION LIMITS FOR SPECIFIC APPLICATIONS OR MIX & MATCH

### Ambient High Sensitivity

For ppb and ug/m<sup>3</sup> trace levels. Calibrated for US EPA and EU directives

### IAQ & Emergency Response Low Sensitivity

For ppm and mg/m<sup>3</sup> calibrated for occupational health and OSHA standards

#### PARTICULATES SENSOR

Concentration Range	0-5000 ug/m <sup>3</sup>	0-20000 ug/m <sup>3</sup>
---------------------	--------------------------	---------------------------

\* Choose two sensors for true simultaneous particulate monitoring.

#### AMMONIA (NH<sub>3</sub>) SENSOR

Concentration Range	0-50 ppm	0-100 ppm
---------------------	----------	-----------

#### CARBON MONOXIDE (CO) SENSOR

Concentration Range	0-10 ppm	0-1000 ppm
---------------------	----------	------------

#### CARBON DIOXIDE (CO<sub>2</sub>) SENSOR

Concentration Range	0-5,000 ppm	0-10,000 ppm
---------------------	-------------	--------------

#### FORMALDEHYDE CH<sub>2</sub>O SENSOR

Concentration Range	0-4 ppm	0-4 ppm
---------------------	---------	---------

#### (NON-METHANE) HYDROCARBONS (HC) SENSOR

(Ethane, Propane, Butane, Hexane, Ethanol, Ethylene, Ethylene Oxide)

Concentration Range	2.5% by volume 20% LEL 25,000 ppm	2.5% by volume 20% LEL 25,000 ppm
---------------------	-----------------------------------------	-----------------------------------------

#### HYDROGEN CHLORIDE SENSOR

Concentration Range	0-100 ppm	0-100 ppm
---------------------	-----------	-----------

#### HYDROGEN CYANIDE HCN SENSOR

Concentration Range	0-100 ppm	0-100 ppm
---------------------	-----------	-----------

#### HYDROGEN SULFIDE (H<sub>2</sub>S) SENSOR

Concentration Range	0-5,000 ppb	0-100 ppm
---------------------	-------------	-----------

#### METHANE (CH<sub>4</sub>) SENSOR

Concentration Range	0-5% by volume 0-10% LEL 5,000 ppm	0-5% by volume 0-10% LEL 5,000 ppm
---------------------	------------------------------------------	------------------------------------------

#### NITRIC OXIDE NO SENSOR

Concentration Range	0-5,000 ppb	0-100 ppm
---------------------	-------------	-----------

#### NITROGEN DIOXIDE (NO<sub>2</sub>) SENSOR

Concentration Range	0-5,000 ppb	0-20ppm
---------------------	-------------	---------

#### OXYGEN (O<sub>2</sub>) SENSOR

Concentration Range	0-30% Vol.	0-30% Vol.
---------------------	------------	------------

#### OZONE (O<sub>3</sub>) SENSOR

Concentration Range	0-150 ppb	0-500 ppb
Concentration Range		0-10 ppm

#### SULFUR DIOXIDE (SO<sub>2</sub>) SENSOR

Concentration Range	0-5,000 ppb	0-20 ppm
---------------------	-------------	----------

#### VOLATILE ORGANIC COMPOUNDS (VOC) SENSOR

Concentration Range	0-50 ppm	0-2000 ppm
---------------------	----------	------------

\* Individual specialty sensor concentration ranges can vary.





**Meteorological Parameters Available:**

- Wind Speed & Direction
- Rainfall
- Barometric Pressure
- Temperature
- Relative Humidity
- Heat Stress

**Enhanced Ambient PM Monitoring Accessories:**

- True Dual Particulates with In-Line Gravimetric Filter
- Inlet Heater
- Moisture Trap

*Easily deployable and portable housing with optional tripod mounting and solar power accessories.*

*“EDC modified the HAZ-COMM Pro Software to remotely trigger two external SKC Sample Pumps. Upon reaching a user-defined alarm threshold, samples would be automatically collected onto absorbent media and in an air sample bag. Using this method eliminates bias and cross-sensitivity inherent in all EC and NDIR sensors. It also enhances the specificity of the Haz-Scanner.”*

**A Variety of Alarms are Available:**

- Text
- Audible Visual
- Discreet Software Alerts

*Standard with Nema 4x enclosure. Optional temperature controlled environmental enclosure also available.*

**Multiple Station Networking Wireless Communication including**

- Wi-Fi
- Cellular,
- Radio Frequency with and without Cloud based subscriptions.

*Optional bag, tube and canister collection for lab analysis verification. Choose from SKC's sample bags or absorbent media tubes. When the HAZ-SCANNER alarms reach a user defined threshold, a sample is taken and can be sent to a lab for analysis to eliminate cross sensitivities. Easily deployable and portable with tripod mounting accessories.*





## Configure the HAZ-SCANNER for Unique Applications



### APPLICATION: URBAN AIR QUALITY STUDY

**Scope of Work:** Study air pollution in a major US city relocating traffic, sidewalks, and walkways, to reduce harmful air pollutants to pedestrians and cyclists to creating a “healthy city.”

**Solution:** Monitoring for the 6 US EPA Criteria Air pollutants. A network of 8 HAZ-SCANNER systems with sensors selected for NO<sub>2</sub>, SO<sub>2</sub>, CO, O<sub>3</sub>, PM-2.5 and Sound. Data was transmitted to a central computer off site via Cellular Modem.



### APPLICATION: HAZARDOUS WASTE SITE REMOVAL

**Scope of Work:** Reserves of chemical and nuclear munitions buried in underground tanks. The deteriorating tanks need to be remediated. Site is in a remote location with minimal power.

**Solution:** A network of 4 HAZ-SCANNER systems with short range 900 MHz radio modems were chosen. Sensor configuration was Wind Speed and Direction, Atomic and Nuclear Radiation, Temperature and Relative Humidity, Rainfall, Particulates and VOC with optional automatic gas sampling bags. Systems were powered by solar panels.



### APPLICATION: FACTORY FENCE LINE MONITORING

**Scope of Work:** After an explosion and toxic gas release occurred at a refinery, real-time air monitoring was required around the premises by a neighborhood community group.

**Solution:** Network 6 HAZ-SCANNER systems with sensors selected for VOC, H<sub>2</sub>S, SO<sub>x</sub>, NO<sub>x</sub>, SO<sub>2</sub>, CH<sub>4</sub> and particulate matter with visual strobing alarms and email alerts. Sensors were calibrated for low ppb ambient conditions. Data was transmitted to an office inside the refinery via Wi-Fi and to the community group via cloud.



### APPLICATION: EMERGENCY RESPONSE

**Scope of Work:** Quick deployment of air monitoring equipment after an unexpected rail tanker accident and unexpected spill.

**Solution:** Two HAZ-SCANNER systems approach was utilized for first responders. Sensor configurations was HCN, H<sub>2</sub>S, VOC, HCl, Radiation, NH<sub>3</sub>, Wind Speed and Direction. Sensors were calibrated for high level ppm conditions. Data was reviewed and received in real-time from inside an Emergency Response Haz-Mat Team van.

## Conclusion

HAZ-SCANNER Air Quality Monitoring Systems offer a portable, flexible, affordable and reliable solution for any site-specific requirements which need to meet US EPA and EU directives. Choose from 20 different gas sensors, and additional meters including sound, atomic radiation, heat stress, and more.

