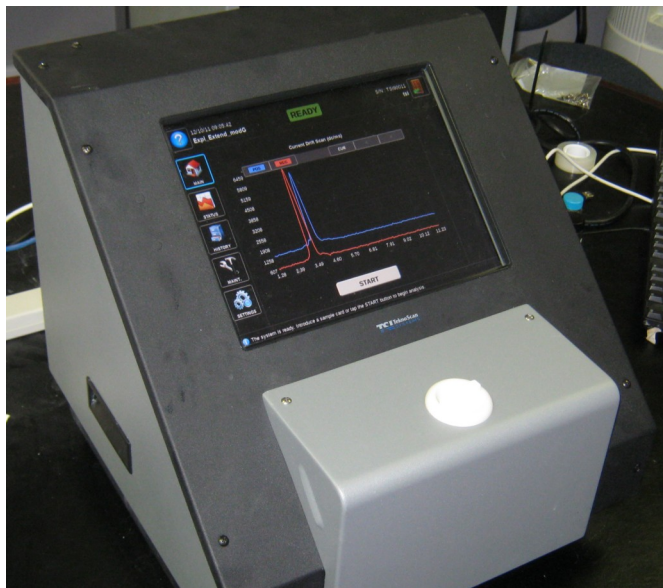


# Teknoscan TSI-3000H Human Trafficking & Smuggling

Sampling & Detection



## APPLICATION

SAMPLING AND DETECTION OF PEOPLE INSIDE CONTAINERS, CARS, TRUCKS AND OTHER ENCLOSURES

MONITORING FOR SPECIFIC ACID METABOLITES FROM HUMAN THAT ARE EMITTED FROM HUMAN BODIES

ADJUSTABLE THRESHOLD FOR FIELD DEPLOYMENT

ONSITE SAMPLING AND ANALYSIS IN SPAN OF 20 SECONDS OR 90 SECONDS WITH FRONT SEPARATION.

PROGRAMMABLE TO DETECT OTHER SUBSTANCES OF CONCERN TO LAW ENFORCEMENT AGENCIES.

FIELD DEPLOYMENT AT SEAPORTS, BORDER CROSSING, VARIOUS ENCLOSURES MOBILE OR STATIONARY

NON-INVASIVE METHOD BY LATCHING THROUGH THE AIR VENT OF CONTAINER OR THROUGH DOOR GASKET

## BENEFITS

High confidence alarm using Fast GC-AIMS spectrometry

Consistent result in complex operational environment

Selectable detection modes to fit high-consequence customer applications

Rapid analysis times that meet industry standard

Color touch screen interface allows for quick user commands

Maximizes system operational time with limited maintenance requirements

Rapid clear down (seconds to minutes) after alarm

No consumables

## OVERVIEW

This analyzer consists of dual polarity axial ion mobility spectrometer (AIMS). This instrument is designed to detect explosives, drugs, and other threat substances.

Air sample from inside the enclosure is concentrated on the Nanocarbon coated sample card. The card is inserted into the detector shown in the above picture for analysis and reporting.

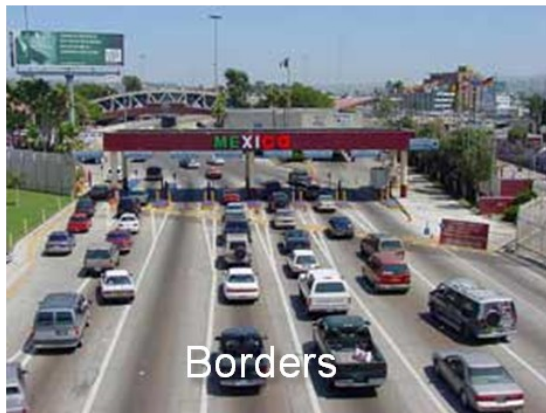
The results are presented in 2D or 3D graphic display and tabulated for storage and printing.

An external thermal printer is available as an option for hard copy printing of the detect result.

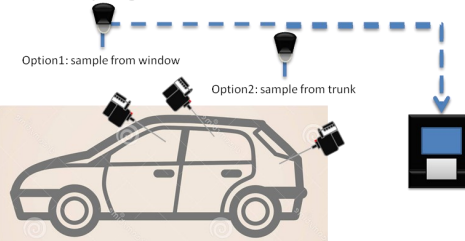
Human trafficking or smuggling is a criminal enterprise that spans the globe. Human smuggling undermines the country security. Large scale arrivals make it difficult to properly investigate whether those who arrive, including the smugglers themselves, pose risks to the country on the basis of either criminality or national security. People are hidden in containers arriving by ship or by trucks or other means are a challenge to police authority and other agencies

**TeknoScan**  
SYSTEMS

# Teknoscan TSI-3000H



HHS sampling



## TECHNOLOGY

## AXIAL ION MOBILITY SPECTROMETER (AIMS)

AIMS	Axial ion mobility spectrometer at atmospheric pressure
Sample Acquisition	Aspiration for specific human emitted vapors
Detection Modes	Positive and negative ions simultaneously fast switching of polarity
Detected Substances	Specific human metabolite acids. In addition a broad range of drugs are also programmed and detectable. These drugs are: heroin, cocaine, methadone, oxycodone, phencyclidine, amphetamines, methamphetamine, THC, fentanyl, marijuana and ketamine.
Programmable Substances	A large number of substances can be programmed into analyzer unit or downloading different methods for various applications.
Onsite application	Sample concentration/enrichment for low concentration of effluents from people body. On-site analysis to identify the presence of people inside various enclosures like marine containers, cars, trucks etc.
Analysis time	Option for 20 seconds fast screening or for complex container sampling GC-IMS 90 secs
Sensitivity	Nanogram levels
Alarm Notification	Audible and Visual if alarm threshold level is exceeded
Data Transfer Capability	Two USB ports, Ethernet port
System Dimensions	L x W x H = 15.7" x 15.4" x 13.4" ( 40 x 39 x 34 cm)
System Weight	37.5 lbs (approx. 17 kg)
Display	12.1" SVGA-TFT LCD, 800 x 600 pixels, Industrial Grade
Ionization Source	Ni-63 (15mCi)
Warm-up Time (Cold Start)	40 minutes
Operating Temp	0 to 40°C (32 to 104°F), 90% humidity
Power	110—240 VAC, 50/60 Hz
Packaging	Custom fix protective transport case with handle and wheels
Consumable and Routine Maintenance items	Performance Verification Pen Sample Card
Certifications	CE certification (EMI and Safety)
Printer (optional)	External thermal printer for result printing

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