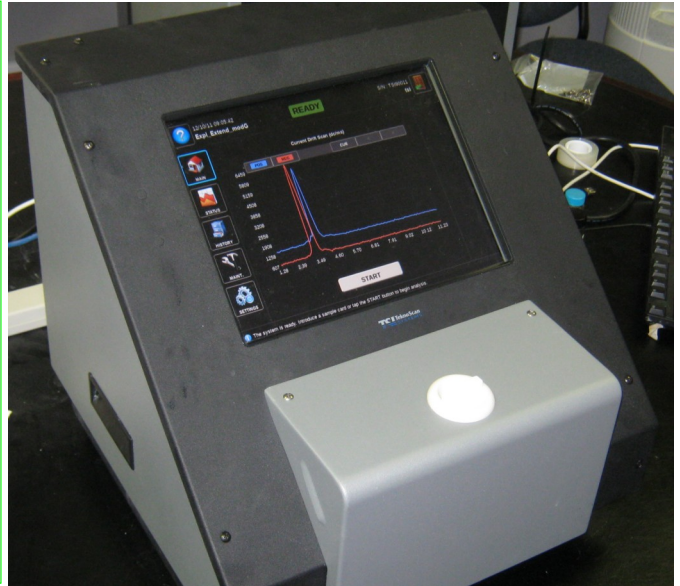


TRACE DETECTION IMS SPECTROMETER



APPLICATIONS

DRUGS SAMPLING & DETECTION

AIRBORNE PARTICLES, VAPOR AND SURFACE SAMPLING & DETECTION

IDENTIFICATION OF THE ILLICIT DRUGS

ONSITE SAMPLING AND ANALYSIS IN SPAN OF 20 SECONDS

SURFACE SWABBING SAMPLING & DETECTION FOR SURFACE CONTAMINATION WITH ILLICIT SUBSTANCES

SAMPLING OF TRUCKS, VEHICLES ENTERING THE FACILITY

SAMPLING OF PARCELS, BOXES, PEOPLE BELONGINGS, HANDS FOR HIDDEN DRUGS

CAN BE PROGRAMMED TO DETECT OTHER SUBSTANCES OF CONCERN IN MENTAL INSTITUTION LIKE SYNTHETIC CANNABIS, MARIJUANA, SPICE AND OTHERS AND PRESCRIPTION DRUGS LIKE TRAMADOLE, DIAZEPAM, MORPHINE ETC..

BENEFITS

High confidence alarm using GC-IMS or IMS spectrometry

Consistent result in complex operational environment

Selectable detection modes to fit high-consequence customer applications

Rapid analysis times that meet the requirement

Color touch screen interface allows for quick user commands

Maximizes system operational time with limited maintenance requirements

Rapid clear down (seconds to minutes) after strong hit and alarm

OVERVIEW

This analyzer consists of dual polarity ion mobility spectrometer (IMS). This instrument is designed to detect drugs, organic substances of concern. Airborne particles or traces are collected and analyzed by swabbing or/and aspiration at the site. Examples of drug detected are amphetamine, methamphetamines, oxycodone, fentanyl, cocaine, heroin, PCP, THC and many others, including key synthetic drugs. The sample is acquired by aspiration using the handheld sampler or direct surface swabbing for drug contamination. After sample acquisition, the sample card is inserted into the analyzer for sample vaporization and analysis. Upon completion of the analysis a detection algorithm makes a decision and shows the detection results. 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. The unit can also be connected to the local server of the hospital to download the data and print the report of the analysis. All information of the screening can be entered through the touch screen

Teknoscan TSI-3000D



SPECIFICATIONS

| TECHNOLOGY | ION MOBILITY SPECTROMETER (IMS) |
|--|--|
| GC-IMS or only IMS | Ion mobility spectrometer at atmospheric pressure |
| Sample Acquisition | Surface wipe, aspiration |
| Detection Modes | Positive and negative ions simultaneously fast switching of polarity |
| Substance Detected | A broad range of drugs, like heroin, cocaine, lidocaine, methadone, oxycodone, phencyclidine, amphetamines, methamphetamine, THC, and key synthetic drugs. Prescription drugs like tramadol, diazepam, barbiturates etc. |
| Programmable Substances | A large number of substances can be programmed into analyzer unit or downloading different methods for various applications. New methods can be downloaded through Internet connection. |
| Other onsite application | Sample concentration/enrichment for low concentration of effluents from boxes, mail bags, parcels delivered to the institution. Sampling lockers, rooms for hidden drugs, personnel belongings etc. |
| Analysis time | 20 sec fast screening. IMS with front GC the analysis is 90 seconds |
| Sensitivity | Nanogram level |
| Alarm Notification | Audible and Visual |
| 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 (approximately 17 kg) |
| Display | 12.1" SVGA-TFT LCD, 800 x 600 pixels, Industrial Grade |
| Ionization Source | Ni-63 15 mCi |
| Warm-up Time (Cold Start) | 40-50 minutes |
| Operating Temp | 0 to 40°C (32 to 104°F) 95% 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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