

ISD-SE311H

Portable Explosives Detector

Portable explosives detector based on ion mobility spectrometry (IMS) technology. The technology has been proven in field applications for more than 10 years. It can quickly detect trace of explosives from the surface of people and objects. The portable design concept makes it easy for users to carry the equipment for rapid deployment in the field, and meets the different requirements of different scenarios of public prosecutors and law enforcement agencies for on-site detection.



Features

- ◆ Non-radioactive source
- ◆ Detection of Explosives
- ◆ Friendly user interface
- ◆ Real-time self-diagnostics
- ◆ Internal auto-calibration
- ◆ Light exterior design
- ◆ Easy sampling without unpacking
- ◆ Database is extensible

Functions

- ◆ Principle IMS
- ◆ Ionization Method non-radioactive ionization source
- ◆ Detection Mode Explosives mode
- ◆ Explosives TNT, RDX, PETN, NG, EGDN, DNT, AN, HMTD, HMX, TATP, Black Powder, Tetryl, Picric Acid, Nitrated explosives, common taggants such as DMDNB & mononitrotoluenes; ANFO, double base smokeless powder (when samples available); any other explosives supported via extensible substance database (database entry pending reference sample validation).
- ◆ Calibration Internal automatic calibration without manual intervention
- ◆ Sampling Methods Swabbing
- ◆ Sensitivity ng (10^{-9} g)
- ◆ False Alarm Rate < 1%
- ◆ Warm Up < 20 min
- ◆ Analysis Time < 10 s
- ◆ Clean Time < 15 s



General Parameters

- ✧ Interface 7 inch Color Touch Screen
- ✧ Result Display Intuitive display results with words, signal intensity, spectrograms etc.
- ✧ Interface Ethernet, USB 2.0, HDMI
- ✧ Storage > 50000 data (extendable)
- ✧ Dimension 409mm (L) ×167mm (W) ×159mm (H)
- ✧ Weight < 5kg
- ✧ Power 100-240V±10%, 47-63Hz
- ✧ Battery 2 hours continuous
- ✧ Working Temp. -10°C to +55°C
- ✧ Operation System Android
- ✧ Working Humidity 0 to 95% Non-condensation
- ✧ Working Pressure 60 to 106 kPa