

## Ion Mobility Spectrometry (IMS)

### AT-IMS-300

#### Feature:

- Dimension: 320mm×270mm×78mm
- 3.2 inch color touch screen
- Light weight, less than 3kg
- Origin Made-in-Swiss aviation plug, built-in ultra-thin Lithium battery, standby time > 12 hours
- Data export raw data and spectra coded via USB, WIFI, bluetooth etc.
- Ion Mobility Spectrometry Technology
- Sampling method: trace particle sampling optional and routine swipe sampling
- Sensitivity: detect limit up to nanogram level
- Available in updating the explosive and narcotics library and upgrade software
- Identify explosives, narcotics, radiation substances in the library, and self-built library new substance

#### Application:

It's widely applied to Metro, Train, Public Safety, Judicial, Border police, government, poster service, express service, and IMS is ideal fast tool for trace drugs, explosives on the surface of goods, luggage or carrying by the passenger.

#### Description:

AT-IMS-300 is self-designed with the most advanced, hand-held, built-in battery explosives and narcotics trace detector, this CBRNE device applying Ion Mobility Spectroscopy (IMS) technology to fast and accurate detect and identify narcotics and explosives clarification.

**Explosives** including TNT, RDX, NG, PETN, AN, BP, HMX, DNT, 2,4,6-trinitrotoluene, TATP, HMTD, Tetryl, TNP, PA, support new self-built substance.

**Narcotics** including cocaine, Fentanyl, Heroin, Amphetamine, Methamphetamine, Methylenedioxy amphetamine "MDA", Tetrahydrocannabinol "THC", Morphine, Methylenedioxy Methamphetamine "MDMA", Methylenedioxy thylamphetamine "MDEA", Phenacyclidine "PCP", Lysergic Acid Diethylamide "LSD", Ketamine, Diazepam, Dolantin, Naloxone Hydrochloride, Oxazepam, Dihydroetorphine Hydrochloride, support self-built new substances radiation substance detection optional.



## 1. Parameter

Parameters	
Sampling method	Trace particle sampling optional and routine swipe sampling
Sensitivity	Nanogram level
Alarm mode	Audio + display information
Analysis time	≤ 2S
Recovery time from alarm	≤ 20s
Preheating time	≤ 10 min
Error rate	≤ 1%
Test rate	≥ 99%
Working environment	- 10 °C ~ 55 °C, relative humidity 99%
Power supply	220V AC 50-60Hz / L-battery
Adapter	Input 220V / AC 50-60Hz; Output: 16V / DC
Battery parameters	Lithium battery pack 16.8v/13ah, continuous power supply not less than 4 hours

