

# ALPHAPEC 850 portable drug and explosive detector

## Product overview

The ALPHAPEC 850 portable drug and explosive detector is an instrument for trace analysis and detection of prohibited substances such as drugs and explosives. It uses a non-radioactive glow discharge ion source, which is intrinsically safe. Adopting the international mainstream IMS, the instrument can quickly and accurately detect and identify trace substances such as drugs and explosives.



I. Dual-mode detection. Can detect common drugs and explosives simultaneously.

II. Adopt a non-radiant discharge ion source, which is intrinsically safe and does not require the approval of the environmental protection department.

III. High detection sensitivity, ng level for drugs and pg level for explosives;

IV. Fast detection and analysis. Can generate results within 5 seconds, and can quickly recover from overload;

## Technical indicators

<b>Detection principle</b>	Ion mobility spectrometry (IMS)
<b>Types of explosives it can detect</b>	TNT, ammonium nitrate, RDX, pentaerythritol tetra nitrate, HMX, C4, tetryl, TATP, DNT, nitroglycerin, ammonium antimony, picric acid, nitroguanidine, Semtex, etc. The types of explosives it detects can be expanded through authorization by the user according to needs to add samples of new explosives.
<b>Types of drugs it can detect</b>	Heroin, cocaine, ketamine, methamphetamine, marijuana, morphine, caffeine, ephedrine, opium, methadone, demerol, ecstasy, amphetamine, magu, codeine, pseudoephedrine, etc. The types of drugs it detects can be expanded through authorization by the user according to needs to add samples of new drugs.
<b>Sampling way</b>	Swabbing or inhaling
<b>Detection precision</b>	Pg level for explosives, and ng level for drugs.
<b>Response time</b>	<5s
<b>Warm-up time</b>	<20 min
<b>Type of alarm</b>	Sound, light, text and character alarm
<b>Working temperature</b>	0°C ~ +40°C
<b>Storage temperature</b>	-20°C ~ +55°C
<b>Communication mode</b>	Ethernet or USB
<b>Size</b>	380 mm X 168 mm X 172 mm
<b>Weight</b>	<4.0 Kg

## Application area

The ALPHAPEC 850 portable drug and explosive detector can be widely used in the security check system of airports, subway, railway stations, customs, border defense, ports and important meeting places, and can be also used as a physical evidence check equipment by public security, armed police, courts and other national law enforcement agencies.

