



## Product highlights

1. Portable with small size and light weight
1. Accurate detection with high sensitivity based on ion mobility spectrometry technology;
2. Dual mode which can simultaneously detect explosives and narcotics without switching the detection mode;
3. High sensitivity to pico gram, accurate and quick result within several seconds;
4. Automatic calibration to adapt to environmental changes;
5. Automatic cleaning after overload detection;
6. Self-diagnosis and real-time warning to help users to monitor whether the instrument is in a proper working state;
7. Large-screen 5.6 inch TFT LCD, supporting the touch screen;
8. Various warning modes, including sound, light, and font color;
9. Real-time storage, more than 1 million records;
10. Built-in printer, which can print the detection results routinely or real-timely;
11. Database open to user. User can add new type explosives/narcotics
12. Various data interfaces, including Ethernet, USB, RS232, Wi-Fi, Bluetooth, GPRS and 4G;
13. Real-time update, users can update the software by USB or internet;
14. Low cost consumables, molecular sieve-based Filter Media is low cost and easy to be replaced;
15. Strong packaging: Goods packed by safety box with lining inside, with firm master carton outside
16. Options:
  - Real-time positioning, with GPS positioning capabilities, the instrument is able to show its real-time location;
  - Remote monitoring, including remote status monitoring, result viewing, fault diagnosis and other functions can be realized through the network

## General Specifications

Dimension	290mm(W) × 170mm(L) × 145mm(H)
Weight	3.5 kg
Gross weight	10 kg
Packing size	415*355*235mm
Packing	Shock proof lining safe box

Component



Technical Specifications

Technology	Ion Mobility Spectrometry, IMS
Explosives identify	Trinitrotoluol(TNT), Hexogen(RDX), Pentaerythritol tetranitrate(PETN), Nitroglycerine(NG), Ammonium nitrate(AN), Black Powder, Dinitrotoluene(DNT), Tetryl, Octogen(HMX), Nitroxanthic acid, Gena, C4, Semtex explosive, TATP, HMTD, Nitroguanidine, HNS, Dinitroglycol, EGDN, DEGND, TNR, MNT, DMNB, PYX, TATB, Dinitrotoluen, etc
Nacotics indentify	Cocaine hydrochloride, Heroin hydrochloride, THC, Methamphetamine, Ketamine hydrochloride, Morphine hydrochloride, Dolantin, Ecstasy(MDA), Papaverine, Ecstasy(MDMA), Methyl ephedrine, Methcathinone, Synthetic ephedrine(K2), Shake foot pill(LSD), Triazolam, Pentachlorophenol, Amphetamines (Ben Bingan), Fentanyl, Phenyl piperidine (PCP), Diazepam, Cathinone, MDEA, DHE, etc.
Databases	Open to user. User can add new type explosives or narcotics
Sampling	Wipe sampling of particles and air inlet sampling of vapours with sample cloth stripe
Alarm	Sound and light
Detection limit	50pg cocaine; 50pg TNT
Identify speed	≤ 10 seconds
Warm-up time	< 10 minutes
Detection rate	≥ 99%
False alarm rate	≤ 1%
Display	5.6 inch TFT color touch screen
Maximum consumption	< 100W
Others	Software update by user, drying agent replace reminder Automatic cleaning, calibration, and diagnosis system Drying agent based on molecular sieve which is cheap and easy to change Network port, serial port, USB, SD card

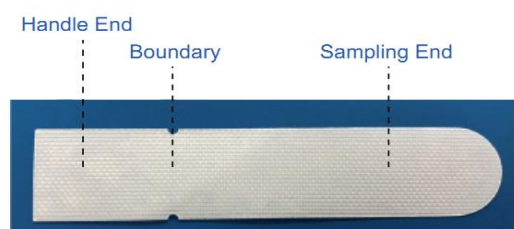
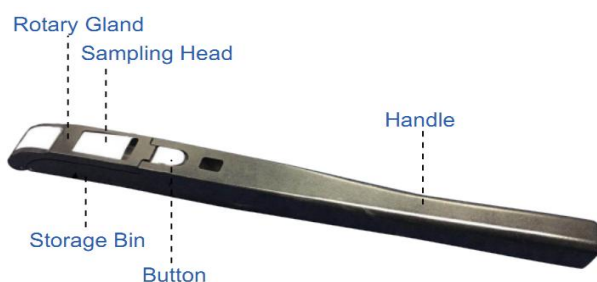
## Operating Environment

Power	100-240VAC 47-63Hz
Operating temperature	-5°C ~ 50°C
Storage temperature	-20°C ~ 60°C
Humidity	45% ~ 99%
Battery	Lithium battery pack 14.8V/6700mAh Continual working time > 3h and back up time > 12h
UPS	Optional

## Accessories

Power adapter, drying agent, sampling rod, sampling cloth stripe, touch pen, calibration stick, glove, cross screwdriver, USB and CD for data output, user manual.

Options: GPS and GSM antenna



GPS  
Antennas



GSM  
Antennas

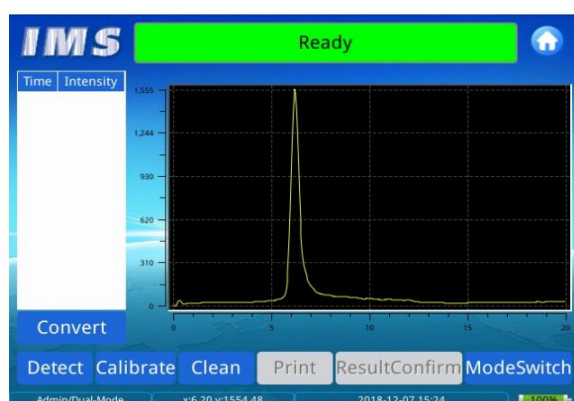


Filter Media  
Replacing Tool



Calibration Stick

## Operation screens



Real-time Spectrum



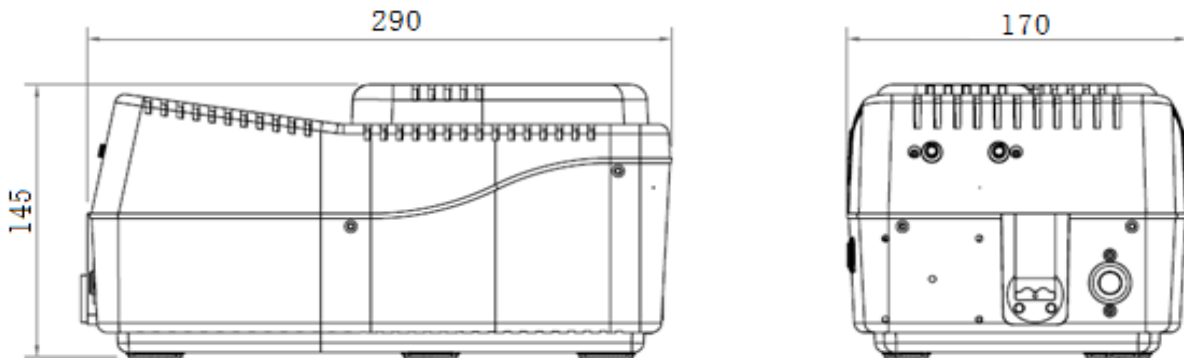
Suspicious are detected

## Compliance

International

- \* ISO19001 ; ISO14001 ; OHSMS18001 ;
- \* CE RoHS
- \* FCC

## Drawing



## Packing



## Application



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No.	Explosives
1	Trinitrotoluol(TNT)
2	Hexogen(RDX)
3	Pentaerythritol tetranitrate(PETN)
4	Nitroglycerine(NG)
5	Ammonium nitrate(AN)
6	Black Powder
7	Dinitrotoluene(DNT)
8	Tetryl
9	Octogen(HMX)
10	Nitroxanthic acid
11	Gena
12	C4
13	Semtex explosive
14	TATP
15	HMTD
16	Nitroguanidine
17	HNS
18	Dinitroglycol
19	EGDN
20	DEGND
21	3,4-dinitrotoluen
22	2,6-dinitrotoluen
23	3,5-dinitrotoluen
24	2,3-dinitrotoluen
25	2,5-dinitrotoluen
26	1,3,5-trinitrobenzene
27	TNR
28	MNT
29	DMNB
30	PYX
31	TATB
32	2-azyl-4,6-dinitrotoluen
33	1,2-dinitro propanetriol
34	1,3-dinitro propanetriol
35	Dinitrotoluen

No.	Narcotics
1	Cocaine hydrochloride
2	Heroin hydrochloride
3	THC
4	Methamphetamine
5	Ketamine hydrochloride
6	Morphine hydrochloride
7	Dolantin
8	Ecstasy(MDA)
9	Papaverine
10	Ecstasy(MDMA)
11	Methyl ephedrine
12	Methcathinone
13	Synthetic ephedrine(K2)
14	Shake foot pill(LSD)
15	Triazolam
16	Pentachlorophenol
17	Amphetamines (Ben Bingan)
18	Fentanyl
19	Phenyl piperidine (PCP)
20	Diazepam
21	Cathinone
22	MDEA
23	DHE