

# NUCTECH™ TR Series

Explosives and Narcotics Trace Detector



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## Technical Features

- High sensitive and flexible detection of a wide range of explosives and narcotics with updatable substance library
- Enabling both particulate and vapor sampling effectively
- Analyzing and identifying substances in 8 seconds typically
- Friendly operation based on touch-screen with graphical user interface and minimal training required
- Standard USB and Ethernet interface for data transfer and software update
- Lightweight, rugged designed and easy transport

## Summary

The NUCTECH™ TR series is applied to identify the presence and type of trace substances of explosives and narcotics, which may be collected from sampling on baggage, vehicle, and even people. Adopting a reliable trace detection technology based on Ion Mobility Spectrometry, the TR series provides high sensitivity and flexibility in detection of a wide range explosives and narcotics in a fast analyzing cycle, and is ideal for all security applications and customs screening applications.

The TR series includes TR2000DB desktop detector for checkpoint security screening and TR1000DB-A handheld detector for portable and field use with lightweight, rugged features and rechargeable Li-ion batteries.



# NUCTECH™ TR Series Explosives and Narcotics Trace Detector



## Technical Data

### General Specifications

Technology Principle	Ion Mobility Spectrometry, IMS
Positive & negative ions analyzing mode	Simultaneous explosives & narcotics detection in dual modes
Detectable explosives	TNT, C4, Tetryl, DNT, NG, PETN, RDX, Semtex, HMX, HMTD, H-6, AN, TATP and black powder, etc.
Detectable narcotics	Cocaine, Heroin, Morphine, Amphetamine type stimulants (Amphetamine, MA, MDMA, MDA), THC, PCP, LSD, Procaine, Ketamine and Dolantin, etc.
Sensitivity	Nanogram level
Sampling Method	Particulate wiping & vapor collection
Readout	Automatic Pass/Alarm with credibility indicator Substances identification with characteristic spectrum display Configurable visual and audio alarm
Communication Interface	USB and Ethernet LAN

### Products

	TR2000DB	TR1000DB-A
Type	Desktop	Handheld
User Interface	10.4" touch-screen LCD	5.0" touch-screen LCD
Warm-up Time	20 minutes typical	20 minutes typical
Analysis Time	8 seconds typical	8 seconds typical
Printer	Built-in printer	--
Dimensions(L×W×H)	340mm×325mm×233mm	403mm×164mm×197mm
Operating Temperature	-5°C ~ +45°C	-5°C ~ +55°C
Weight	11 kg	4 kg
Power Supply	100VAC ~240VAC	100 VAC ~240VAC, battery backup up to 2 hours/4 hours of operating

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