



NUCTECH™ TR2000DC

Desktop Explosives and Narcotics Detector



The NUCTECH™ TR2000DC desktop explosives and narcotics detector can identify the presence and type of trace substances from explosives and illicit drugs that is collected from sampling baggage, vehicles, and even people. Adopting a reliable trace detection technology based on Ion Mobility Spectrometry, the TR2000DC provides high sensitivity and flexibility in detecting a wide range of explosives and narcotics in a fast analytical cycle. It is ideal for all security applications and customs screening applications.

Technical Features

- High sensitivity and flexible detection of a wide range of explosives and narcotics with an updatable substance library.
- Non-radioactive ionization source with no extra manual calibration.
- Automatic internal calibration with no extra manual operation.
- Enabling both particulate and vapor sampling effectively.
- Quick analysis within 8 seconds and fast cleaning to enable higher transmission.
- Low false alarm rate due to new detection algorithm and dopant.
- Simplified touch-screen operation with a graphical user interface and minimized training required.
- Standard Ethernet and USB port for data acquisition and software update.
- Lightweight, rugged design and easy to transport

Technical Data

General Specifications

Detection Technology	Ion Mobility Spectrometry
Ionization Technology	Non-radioactive ionization source
Positive & Negative Ions Analyzing Mode	Simultaneous explosives & narcotics detection in dual modes
Detectable Explosives	TNT, C4, Tetryl, DNT, NG, PETN, RDX, Semtex, HMX, HMTD, AN, TATP and black powder, etc.
Detectable Narcotics	Cocaine, Heroin, Morphine, Amphetamine, MA, MDMA, THC, PCP, LSD, Procaine, Ketamine, Ephedrine, Dilantin, etc.
Sensitivity	Picogram to Nanogram level
Sampling Method	Particulate wiping 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 and VGA

Products

Type	Desktop
User Interface	10.4" touch-screen LCD
Warm-up Time	20 minutes typical
Analysis Time	8 seconds typical
Printer	Built-in printer
Dimensions	340mm(L)×325mm(W)×233mm(H)
Operating Temperature	-20°C ~ +55°C
Weight	12kg
Power Supply	220VAC / 110VAC (-15%~+10%), 50 Hz / 60Hz±3Hz

