

NUCTECH™ TR2000DC

Desktop Explosives and Narcotics Trace Detector



Creating a safer world



NUCTECH™ TR2000DC is the latest desktop trace detector model based on Ion Mobility Spectrometry (IMS) and non-radioactive ionization source, built on the 15-years-field-proven TR series. TR2000DC enables users to detect and identify trace of explosive and drug substances sampled from passenger and cargo surfaces.

Its high detection performance and operational efficiency makes it a powerful instrument deployed in aviation security, customs & borders, logistics, critical infrastructure, etc., as a trustworthy and reliable part of NUCTECH integrated solutions.

Technical Features

- Approved by ECAC in both Passenger & Cargo
- Non-radioactive ionization source (NRIS)
- Detecting explosives and drugs in one analysis
- Field-proven extremely low false alarm rate
- Fast detection of most explosives in 5 seconds
- Rapid clean-up to increase field throughput
- Reusable sampling swabs and filter materials
- Automatically self-calibrated
- Simple and intuitive software user interface
- Live self-diagnosis system to ease maintenance
- Integratable with remote management platforms
- AI-aided library expansion for new threat
- Hot-Pluggable battery supporting 1 hour standby
- Modularized design to enable field repairs

NUCTECH™ TR2000DC

Desktop Explosives and Narcotics Trace Detector

Technical Data

General Specification

Technical Principle	Ion Mobility Spectrometry (IMS)
Ionization Technology	Non-radioactive Ionization Source (NRIS)
Analyzing Mode	Explosive Mode, Narcotic Mode and Dual Mode
Detectable Explosives*	TNT, RDX, PETN, NG, AN, HMTD, HMX, Tetryl, TATP, UN, EGDN, etc.
Detectable Narcotics*	Cocaine, Heroin, THC, MA, Ketamine, MDMA, Morphine, Amphetamine, LSD, Ephedrine, Fentanyl, etc.
Calibration	Automatic internal calibration
Verification	Standard Verification Pen
Sampling Method	Particle sampling with reusable swabs by hand or patented Thumbprint Wand
Sensitivity*	Nanogram
False Alarm Rate	< 1%
Warm-up Time	< 20 minutes
Analysis Time	< 8 seconds
Cleanup Time	< 10 seconds (typical)

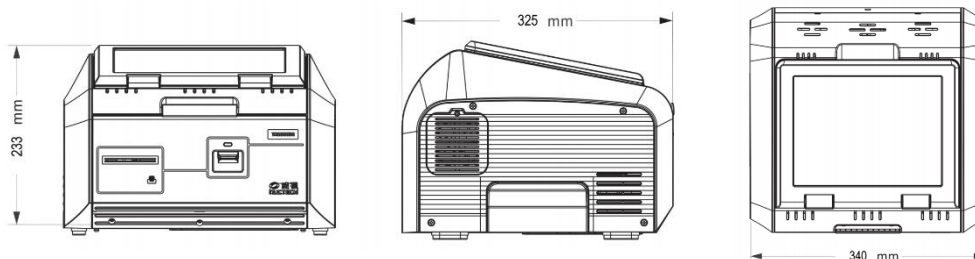
Functions and Configurations

User Interface	10.4" color touch-screen with easy software UI
Readout	Pass/Alarm with substance name, signal strength, original spectrum (configurable audio alarm)
Data Interface	Ethernet (2 ports), USB (2 ports) and VGA, supporting data transfer via USB or Ethernet
Data Storage	> 100,000 samples (expandable memory)
Printer	Built-in thermal printer or external USB printer

Installation Data

Dimensions	340mm(L)×325mm(W)×233mm(H)
Weight	< 12 kg
Power Supply	100-240V AC ±10%, 47-63 Hz
Battery	Rechargeable battery supporting 1 hour operation
Operating Temperature	-20°C to +55°C
Operating Humidity	0 to 95% non-condensing
Operating Pressure	40 to 106 kPa

* Threat substances and sensitivity setting are subject to regulatory authority and customization



TR2000DC-ECAC/EU-EN V21.02

Copyright 2021 NUCTECH COMPANY LIMITED, All Rights reserved.
Design and specifications are subject to change without notice.



NUCTECH AWARDED THE CERTIFICATE OF QUALITY MANAGEMENT SYSTEM (ISO9001:2015)
NUCTECH AWARDED THE CERTIFICATE OF ENVIRONMENTAL MANAGEMENT SYSTEM (ISO14001:2004)
NUCTECH AWARDED THE CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM (GB/T28001-2011)

