NIRLIGHT IDENTIFIER

Portable NIR Drug Identification System

RedteQ®

Lab-Grade Drug Identification — Results in Under 10 Seconds

RedteQ — NIRLab Portable Narcotics Identification | **Contact us for more information**

NIRLAB provides law enforcement organisations worldwide with a portable near-infrared device that swiftly and accurately identifies and quantifies illicit drugs, cutting agents and precursors.

With real-time data analysis and centralised tracking, the **NIRLight Identifier** delivers comprehensive, integrated insight into trends and patterns of illicit substance use.

WHY THE NIRLIGHT?

- Lab-grade analysis with results within 10 seconds
- Identification and quantification of more than 400 substances
- Weekly library updates — in step with drug evolution
- No sample preparation required
- Point-and-click design
- Up to 3 substances in a mixture
- Centralised tracking and data analysis

DETECTION CAPABILITY

- All major drugs of abuse and cutting agents
- Cocaine and heroin in base and salt forms
- Phenethylamines (MDMA, amphetamine, methamphetamine)
- Ketamine
- THC, CBD and CBN in cannabis
- Many cathinones and new psychoactive substances
- Selected explosives in powder form
- Direct sampling, or through thin clear plastics

Illustrations for reference only; specifications subject to change.

RedteQ | **Contact us for more information** **T:** 0800 161 5512 **E:** info@redteq.com **W:** www.redteq.com

RedteQ Analytical Ltd, The Hub, Fowler Avenue, Farnborough Business Park, Farnborough, Hampshire GU14 7JF Manufactured by NIRLAB

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SPECIFICATIONS

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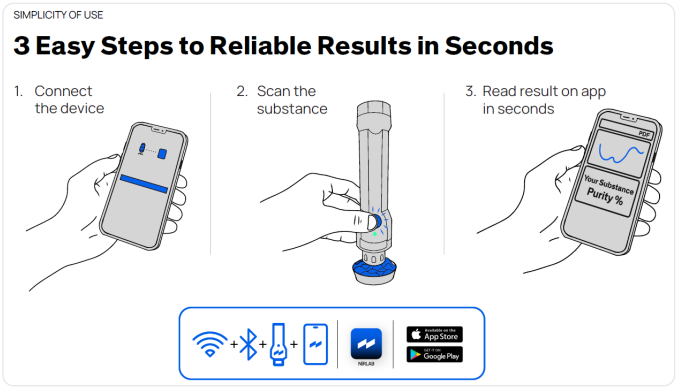
TECHNICAL SPECIFICATIONS

Illumination source	Two integrated vacuum tungsten lamps
Lamp life	>40,000 hr
Sample working distance	3 mm from window optimal, 0–15 mm
Dispersing element	VIAVI linear variable filter (LVF)
Detector	128-pixel InGaAs photodiode array
Wavelength range	950–1650 nm (10,526–6060 cm^{-1})
Pixel-to-pixel interval	6.2 nm for 950–1650 nm
Spectral bandwidth (FWHM)	<1.25% of centre wavelength, 1% typical (e.g. @1000 nm, resolution is <12.5 nm)
Analog-to-digital converter	16 bit
Dynamic range (max)	1000:1
Measurement time (typical)	0.25–0.5 sec
Signal-to-noise ratio (typ.)	25,000
Integration time	10 ms typical, minimum 10 s
Connectivity	Bluetooth 4.1 (BLE) and USB 2.0
Weight	<250 g (<9 oz)
Size (length / diameter)	194 mm (6.64”) / 47 mm (1.85”)
Battery	Rechargeable Li-ion, not removable
Battery run time / charge	>10 hours with lamps on continuously
Battery cycle life	>75% capacity after 300 charge cycles
Battery charge time	3.5 hours at 1A
Operating temperature	20 ~ 40 °C (non-condensing)
Storage temperature	20 ~ 50 °C (non-condensing)
Dust and water resistance	IP65 and IP67
Shock and vibration	MIL-PRF-28800F Class 2
Warranty	12 months RTB / exchange

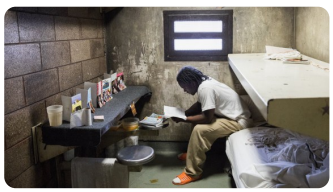
SIMPLICITY OF USE



APPLICATIONS

Policing & Forensics

Border Force & Customs



Prisons & Corrections

Harm Reduction & Festivals

INTERNATIONAL USERS & ACCREDITATIONS

In 2022 the Forensic Laboratory of the University of Lausanne, using the NIRLight solution, achieved significant results in the United Nations Office on Drugs and Crime's International Collaborative Exercises (ICE), for the analysis of cocaine and heroin.

CONTACT US FOR MORE INFORMATION

For pricing, product demonstrations, evaluation units or technical advice on the NIRLight Identifier, please contact RedteQ Analytical Ltd on **0800 161 5512** or email **info@redteq.com**.