

3DX-RAY

3DX-ARX Handheld Raman Spectrometer



Simplicity. Speed. Precision.

Experience simplicity, speed and efficiency with 3DX-ARX designed for and with field operators. With one-hand and single-button operation, the pocket-size ARX is your go-to solution for swift and precise chemical identification in any scenario.

With all the libraries you need at your fingertips, including biotoxins, you can trust the ARX to deliver accurate results with ease.

Using the optional Mobile software on your mobile phone, the ARX communicates wirelessly and lets you send case reports on the fly in seconds.

The ARX is the only handheld Raman device on the market that communicates on military networks via ATAK.

The ARX is engineered for simplicity and speed, allowing you to focus on the task at hand without any unnecessary hassle. Training is done in hours and user errors are minimized through self-evident interaction and user guidance. Night vision mode make the ARX compatible with many night-goggles.

Small enough to fit in your pocket – big enough to redefine Raman

3DX-ARX Handheld Raman Spectrometer

Instrument type	Handheld Raman spectrometer
Laser excitation wavelength	785nm
Barcode reader	Yes, QR and most common barcode formats
Laser output power	Max 300mW, user adjustable
Max spectral range	400 cm ⁻¹ to 2,300 cm ⁻¹
Autofocus	Yes, 0-4mm
Spectral resolution	8-10 cm ⁻¹
Detector type	Linear CMOS
Display	3.5" Transflective TFT with LED backlight, Night-vision mode
Internal memory	More than 100,000 measurements
Data export formats	.txt, .csv, .jcamp
Connectivity	USB-C, Wi-Fi (2.4 GHz), Bluetooth 5.1
Battery	Rechargeable - more than 12 hours of typical use
Weight	590 g (1.3 lb)
Size	160 x 85 x 28mm (6.2 x 3.3 x 1.1")
Operating temperature	-20°C to +50°C (-4°F to 122°F)
Storage temperature	-30°C to +50°C (-22°F to 122°F)
Included accessories	Vial holder, watertight case, protective cap with calibration target, sample vials, USB-C cable, AC adapter 5 VDC/1 A USB for charging
Start-up time	Less than 20 sec. in room temperature
Scan time	Most substances less than 5 seconds
Exposure	Auto-exposure or manual exposure, 0.001 - 60 seconds
Available libraries	Explosives, Narcotics, Chemical Warfare Agents, Hazardous materials, Pharmaceuticals, Biotoxins, User defined libraries. Total number of substances is more than 14,000
MTBF	50,000 h
Relative humidity	5-90%
Approvals	CE, IEC 60529 IP67, MIL-STD-810G 514.6 (vibration), MIL-STD-810G 516.6 (functional shock), SWGDRUG category A compliant for presumptive testing, g, 21 CFR part 11 compliant (Instrument and ChemDash) ATAK
Supported languages	Arabic, Chinese, English, French, German, Indonesian, Italian, Japanese, Korean, Polish, Romanian, Spanish, Swedish, Ukranian and Vietnamese. Additional languages on request
Software included	Lite. Optional software: Pro and Mobile (iOS & Android)
Type of substances	Solid, liquids, powders and tablets
Mixture analysis	Yes
Delay function	Yes, 1 second to 15 minutes
Features	Autofocus, QuickScan, User authorisation, Event logging, Scan delay, User-defined libraries, User-added substances and Night-vision mode

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