

ATR6500SS

Handheld Raman Spectrometer (Trace Edition)



-  **Handheld Raman Spectrometer (Trace Edition)**
-  **Non destructive and rapid testing**
-  **Conventional/Trace Dual Mode**
-  **Implement pg-ng level detection**

Product Introduction

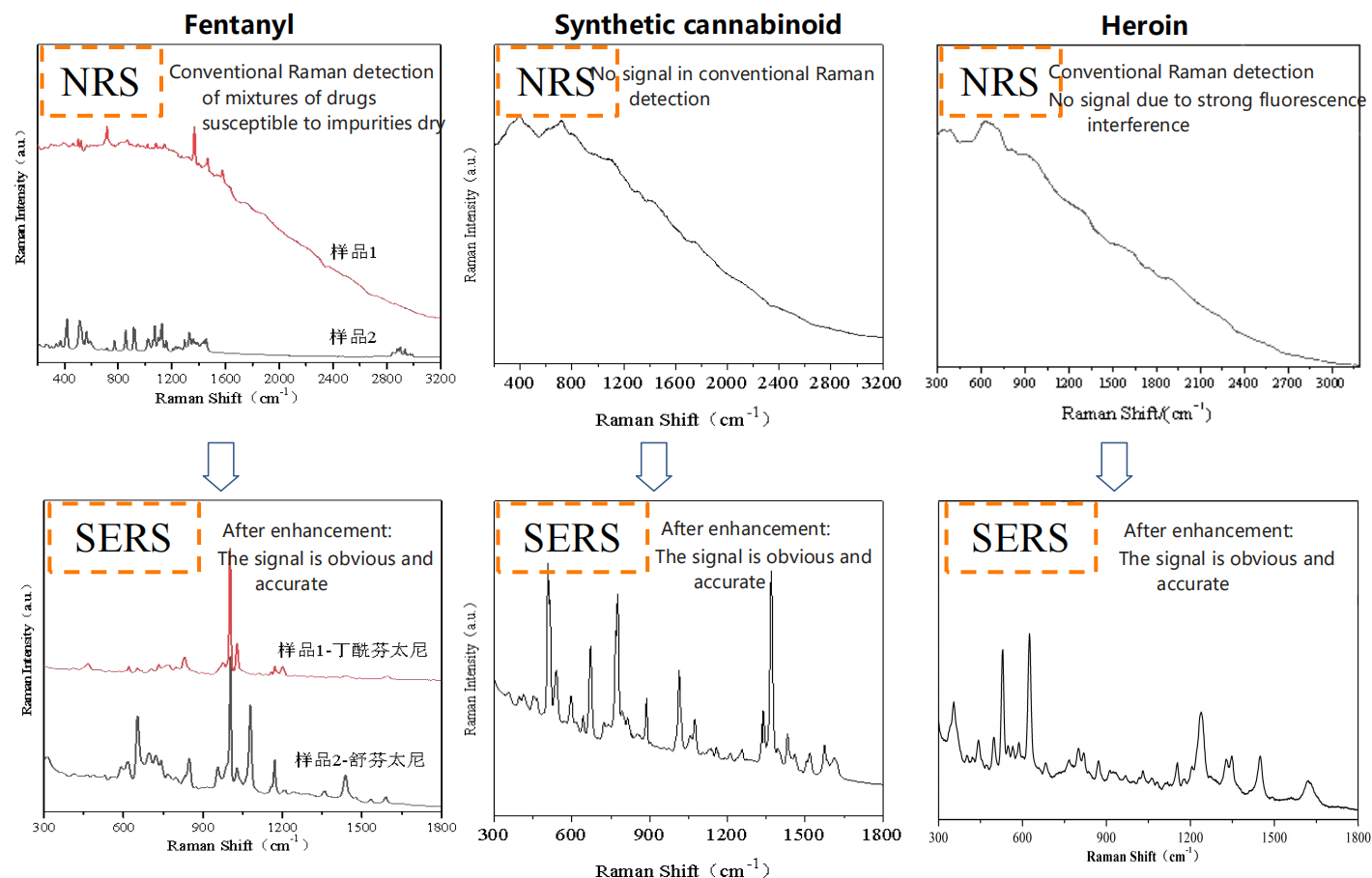
The ATR6500SS handheld Raman spectrometer uses laser Raman spectroscopy analysis technology and has been certified by the Ministry of Public Security. The instrument is equipped with a highly sensitive matching recognition algorithm that is compatible with both conventional Raman (NRS) and surface enhanced Raman (SERS) detection modes. It can quickly and accurately detect various chemical warfare agents, drugs (methamphetamine, ketamine, heroin, morphine, etc.), fentanyl, synthetic cannabinoids, and other new psychoactive substances, precursor chemicals, and refined anesthetics; It can also be combined with Raman enhancement reagents to achieve the detection of pg~ng grade drugs, effectively solving the detection problems of strong fluorescence interference, low content drugs in mixtures (<0.01%), drug production, trace residual drugs at drug use sites, and new camouflage drugs, with advantages such as fingerprint, high sensitivity, and high accuracy.

Product Features

- ★ Certified by the Ministry of Public Security;
- ★ Raman fingerprint features high detection accuracy and can be used for indefinite item screening;
- ★ Highly sensitive matching recognition algorithm, enabling easy switching between conventional Raman (NRS) and enhanced Raman (SERS) detection modes;
- ★ Equipped with a surface enhanced (SERS) scheme to achieve the detection of pg-ng level residual trace drugs; The database covers new psychoactive substances such as drugs, fentanyl, synthetic cannabinoids, and precursor chemicals, making screening more comprehensive;
- ★ Optimized automatic mixture analysis algorithm for more effective mixture identification;
- ★ It has an alarm reminder function and directly provides information such as the category and composition of the tested substance.

产品检测性能 Product testing performance

The surface enhanced Raman spectroscopy (SERS) method solves detection problems such as low drug concentration (<0.01%) and strong fluorescence interference, and accurately detects drugs such as fentanyl, synthetic cannabinoids, and heroin.



- ▲ Routine Raman testing: Signal interference from pigments, starch, or other strong fluorescent impurities. Enhanced Raman testing: The signal is clear and accurate.

检测实例 Detection Cases



- ▲ Using SERS method to detect a very small amount of powder to detect methamphetamine (the main ingredient is Macu)



- ▲ Detection of Synthetic Cannabinoids from Electronic Cigarette Oil by SERS Method

Selection Guide

Product Code	Product Name	Product Discription
ATR6500SS	Handheld Raman Spectrometer (Trace Edition)	Trace Edition Excitation Wavelength:785 ± 0.5nm; Including Self-Built Library Database Library as attached list, software; Including 25 units sers accesories;
ATR6500SS-AC	Sers accesories	10 units sers accesories per pack
ATR6500SN	Handheld Raman Spectrometer	Normal Edition Excitation Wavelength:785 ± 0.5nm; Including Self-Built Library Database Library as attached list, software; Including 25 units sers accesories;