

# SERSTECH

Presenter, Title



Introduction

# Serstech in short

The Company

Reference Customers

The Technology

Product(s)

Aftersales

Why Serstech

# The Company

- Founded 2006
- Based in Lund, Sweden
- Listed on Nasdaq First North
- First commercial product in 2015
- On 3<sup>rd</sup> generation product, Arx mkII
- Fully focused on handheld Raman solutions
- All production in Sweden
- Global partner network, 170 partners in 66 countries





# Reference Customers



Coast Guard  
USA



Corrections  
Ohio, USA



Prison and Police  
Indonesia



DEA  
Philippines



Customs  
Ireland



Singapore  
Central Narcotics Bureau



Korean  
National Police Agency



Australian Coast Guard



World Customs Organization



United Nations



Bomba  
Malaysia



Customs  
Italy



National Police  
France



Police  
Hong Kong



Royal Thai Navy

 **SERSTECH**

SIMPLICITY MEETS SPEED AND PRECISION



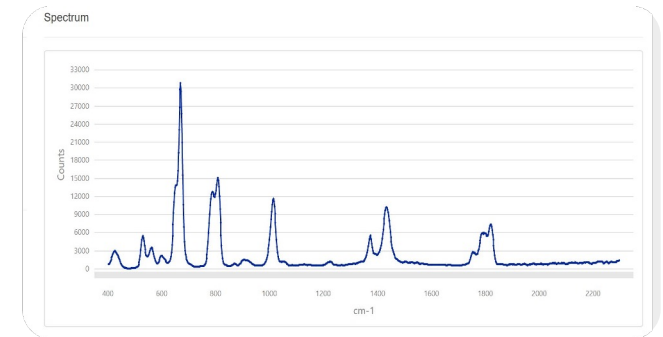
# The Technology

A laser adds energy to the sample



The molecules start to vibrate

The vibrational pattern is sent back to the device



The spectrum is matched against reference libraries

The device reads the unique spectrum of the sample



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

# The Product(s)

- Serstech Arx mkII
- Reference Libraries
- SERS Kit (patented)
- ChemDash
- ChemDash Mobile





# Serstech Arx mkII



# Serstech Arx mkII

- Weight only 590g
- Fully flexible – selectable libraries
- Laser wavelength 785nm
- Auto-focus (patented)
- Fluorescence reduction
- Quick Scan™ (One-hand, single-button operation)
- IP67, CE, MIL-STD-810G, 21 CFR Part 11,
- Wi-Fi, Barcode reader
- No accessories needed – just point and shoot
- 12 hours battery time in normal operations



# Serstech Arx mkII

## Ease of use

Extreme usability, developed with and for field operators

## Portability / Form factor

Designed for field use, one hand operation, single button operation etc.

## Battery Life

12h+ normal operational use, with convenient USB-C charging

## User Interface with feedback

Guidance on how to remedy inconclusive measurements

## Complex mixtures & impurities

Ability to identify significantly more substances than ever before

## Fluorescence Reduction

Comparable to, or better than 1064nm with New algorithm, Less fluorescence, more Raman signal

## Dark & Explosive materials

High quality spectra with low laser power

## Biotoxins library

As the only handheld Raman device Serstech offers a Biotoxins library

## ChemDash Mobile

Reports on the fly, remote control instrument with Wi-Fi/Bluetooth, GPS coordinates etc.





# Reference Libraries

## 17.000+ Substances (24.000 by the end of -24)

- Narcotics
- Explosives
- Hazardous Chemicals
- Pharmaceuticals
- Chemical Warfare Agents
- Bio-Toxins

## Validated Spectra

- GHS Symbols
- CAS numbers



## Updated Quarterly

Free of charge for the lifetime of the device



# SERS Kit

## Quick identification of difficult substances

Measure down to PPM level (0,0001%)

## Low concentration / fluorescent street samples

Heroin, Fentanyl, Meth Amphetamine, Ketamine, Cocaine, Amphetamine, CWA's etc.

## Quick and easy operations in the field

## Patented technology

## Best in class



"The Serstech surface enhanced Raman spectroscopy (SERS) kit has an elegant and foolproof design. The system features a disposable magnetic sample interface to ensure proper seating, a quick sample preparation step, and then attaches directly to the standard sample interface. Once attached, the sample is rotated and vibrated in unison to ensure excellent mixing and analysis."

Dr Christina Baxter  
CEO Emergency Response TIPS



# ChemDash & ChemDash Mobile

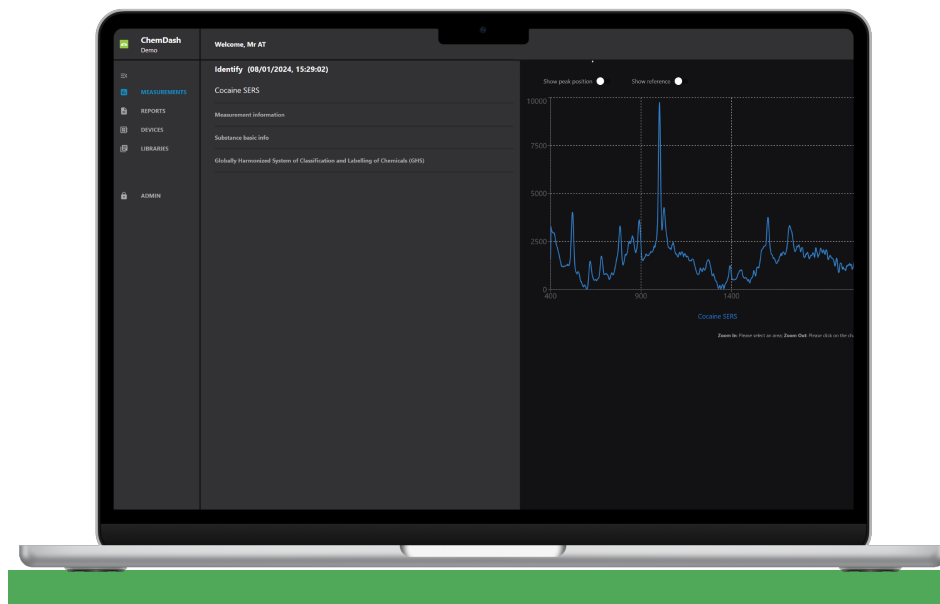
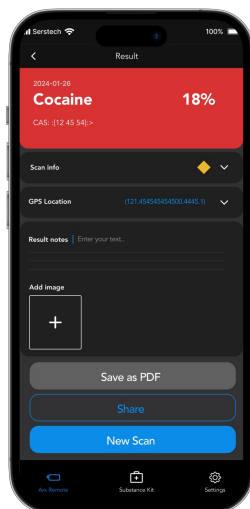
## ChemDash

Administrate users, devices, libraries etc.  
Analyze and compare spectra

Export measurements, create and share reports etc.

## ChemDash Mobile

Generate reports on the fly  
Remote control Serstech Arx mkII via Wi-Fi or Bluetooth  
Reach-Back service





# Aftersales

## Warranty

5 years warranty – best in the industry

## Support

Local support through highly skilled partners

Serstech dedicated support for trouble shooting and reach-back

## Library updates

Quarterly updates, free of charge



# Why Serstech



Complete solution for chemical threat identification



Made in Sweden



Best in class support

## References



# Thank you for listening!

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 SERSTECH