

DeltaNu - ReporteR



GENERAL DESCRIPTION:

The DeltaNu ReporteR is designed for first-responders in the field, to quickly and easily identify counterfeit drugs and other materials non-destructively. The ReporteR comes with a hazmat material library, consisting of narcotics and explosives. The product can be used independently or with a laptop computer, allowing for convenience in the field and in the lab.



TECHNICAL DESCRIPTION:

The ReporteR utilizes Raman Spectroscopy to quickly and efficiently identify counterfeit drugs. It is the smallest Raman spectrometer available, making portability and convenience easy. Its simple push-button operation runs the DeltaNu software and firmware, making the instrument easy to use, even for non-spectroscopists.

CONTACT INFORMATION

DeltaNu, a business unit of Intevac Photonics, Inc.
 5452 Aerospace Drive
 Laramie, WY 82070
 307-745-9148
www.intevac.com/deltanu

COST

N/A

Tier Selection

Final tier assignment is based on overall product score.

- Top Tier Second Tier Third Tier
- Fourth Tier Bottom Tier

RANKINGS

	Biological	Chemical	Radiological
FIELD USE System	N/A	<input checked="" type="radio"/>	N/A
MOBILE Laboratory	N/A	<input checked="" type="radio"/>	N/A
DIAGNOSTIC Laboratory	N/A	<input checked="" type="radio"/>	N/A
ANALYTICAL Laboratory	N/A	<input type="radio"/>	N/A

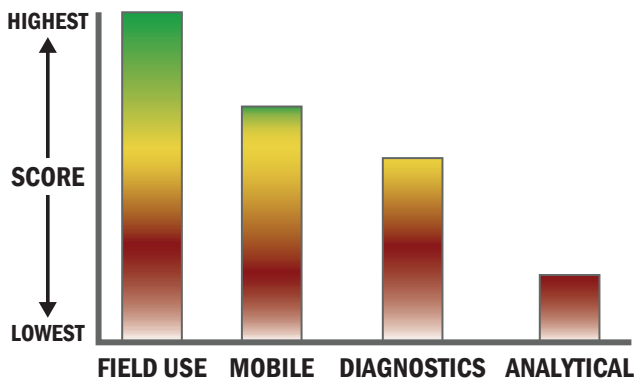
Survey Source

Vendor Supplied Information



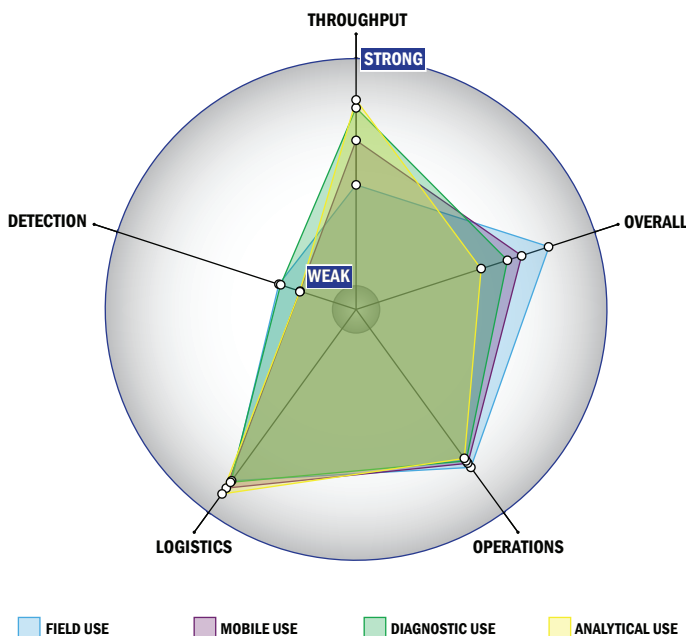
Scoring Analysis

System scores are compared across the four scenarios and ranked from highest to lowest.



Impact Chart

The Impact Chart is a spider graph representing specific categories and designed to give the reader a visual depiction of how a particular system is expected to operate across the four different scenarios. The score for each of the seven categories is presented as the percentage of the total possible score. Higher category scores extend the spokes of a graphic toward the outer edge of the chart. The area graphed for each of the four scenarios relates to how well the system performed in that scenario. Graphics for each of the four scenarios are super-imposed for ease of comparison.



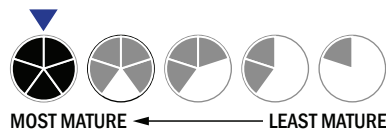
Evaluation Criteria

Throughput:

- 2 minutes or less for detection
- Continuous operation with no defined runs
- Greater than 750 samples every 2 hours
- The system or device is currently semi-automated
- Device or system is intended for multiple detection assays
- Less than 5 minutes is required for set-up
- 1-2 steps are required for detection

Logistics:

- Very brief (minutes-hours) training and minimal technical skills
- Approximately the size of a soda can
- Less than 1 kg
- Wireless and wired connections are available
- System or device uses batteries
- 2-4 hours battery life



Operations:

- Can be used from -21 °C to 41 °C
- Device or system has peak performance at normal relative humidity conditions
- Greater than 3 years shelf life
- Less than 1 year expected life
- Results can be viewed in real-time
- The system could be adapted to a fully autonomous system with significant effort
- The system hardware is closed and not available for modification

Detection:

- Possible the system could receive 510K clearance, no current efforts at this time
- Efforts are underway to achieve FDA approval
- Less than 50 µL
- Excellent specificity. System has occasional false alarms under certain conditions (<2%)