Technical Associates - Radiation Survey Meter and Surface Monitor

GENERAL DESCRIPTION:

The Radiation Survey Meter and Surface Monitor's small size, light weight, one hand operation, digital display, built in speaker, and large detector area make this a very useful monitor for surveying bench tops or checking hands and clothes for almost any radioactive contamination. It is also available with the mR/hour Scale, uSv/hscale Counts Per Minute Scale or Both Scalers (upon request). End Users: Fire Department, Ambulance, Police, First Responders and U.S Custom Personnel use for surveying people, cars, luggage, surface of room, etc.

TECHNICAL DESCRIPTION:

The Radiation Survey Meter and Surface Monitor is a Small Digital Ratemeter with built in 2" diameter pancake tube and speaker. Reads out in mR/hr (or counts per minute). Thin window recessed and protected by sturdy grill. Additionally TBM-3SR-D has sliding methacrylate beta shield which also acts as additional protection for thin GM tube window. Instrument will see alpha, beta and gamma radiation. Anti-saturation circuit will not fall below full scale in high fields. Tested to 100R/h. It is also available with the mR/hour Scale, uSv/hscale Counts Per Minute Scale or Both Scalers (upon request).

CONTACT INFORMATION

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COST

- $585/system
- N/A/analysis

Tier Selection

Final tier assignment is based on overall product score.

Top Tier | Second Tier | Third Tier | Fourth Tier | Bottom Tier

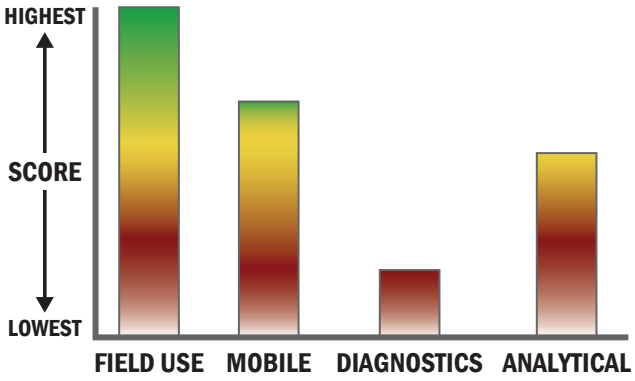
RANKINGS	Biological	Chemical	Radiological
FIELD USE System	N/A	N/A	Second Tier
MOBILE Laboratory	N/A	N/A	Second Tier
DIAGNOSTIC Laboratory	N/A	N/A	Second Tier
ANALYTICAL Laboratory	N/A	N/A	Third Tier

Survey Source

Vendor and Internet Supplied Information

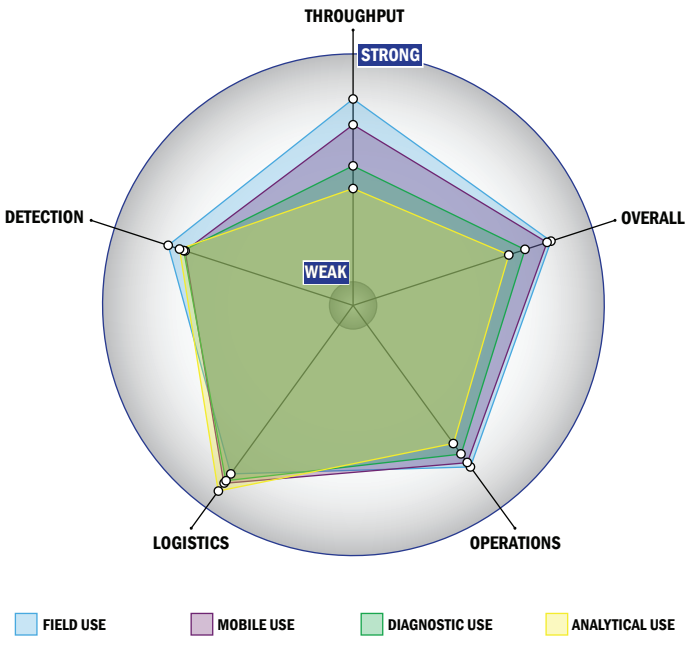
Scoring Analysis

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.



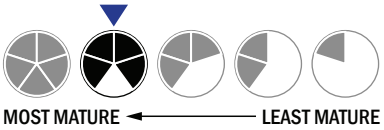
Evaluation Criteria

Throughput:

- 2 minutes or less for detection
- 1 sample, <10 tests/sample per run
- 95 - 32 samples every 2 hours
- The system or approach is not amenable to full or semi-automation
- Device or system is intended for multiple detection assays
- 0-1 solutions, buffer, eluents, and/or reagents
- 1 component
- No set-up of the system is required
- 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
- Wired connections are available
- System or device uses batteries
- 4-8 hours battery life



Operations:

- Can be used from -21°C to 41°C
- Performance is not influenced by relative humidity
- Greater than 3 years shelf life
- Greater than 10 years expected life
- Results can be viewed in real-time
- The system is not capable of autonomy
- The system hardware is closed and not available for modification

Detection:

- This system does not test liquids
- Total dose, dose rate and count rate with operator selection to show the display, may differentiate between types of radiation
- Down to background level radiation for dose rate
- Down to background level radiation for count rate
- System is used for area air sampling