

Bio-Rad Laboratories - CFX Real-Time PCR Detection System



GENERAL DESCRIPTION:

Not provided.

TECHNICAL DESCRIPTION:

The CFX Real-Time PCR detection systems are designed for real-time PCR amplification and detection of DNA or cDNA using fluorescence detection to determine target sample presence, absence or quantity. The systems combine a C1000 thermal cycler with interchangeable 96 well or 384 well modules for singleplex and multiplex detection of fluorophores. Purchase of this instrument conveys a limited non-transferable immunity from suit for the purchaser's own internal research and development and for use in human in vitro diagnostics and all other applied fields except veterinary diagnostics. The CFX Automation System enables the automated loading of multiple reaction plates into the CFX system allowing fully automated running sample amplification and detection



CONTACT INFORMATION

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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	N/A
MOBILE Laboratory	●	N/A	N/A
DIAGNOSTIC Laboratory	●	N/A	N/A
ANALYTICAL Laboratory	●	N/A	N/A

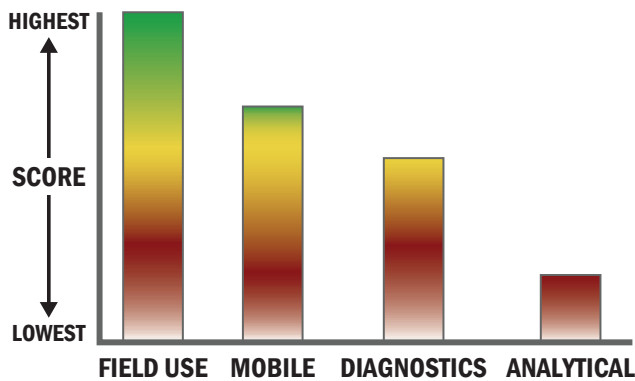
Survey Source

Vendor and Internet Supplied Information



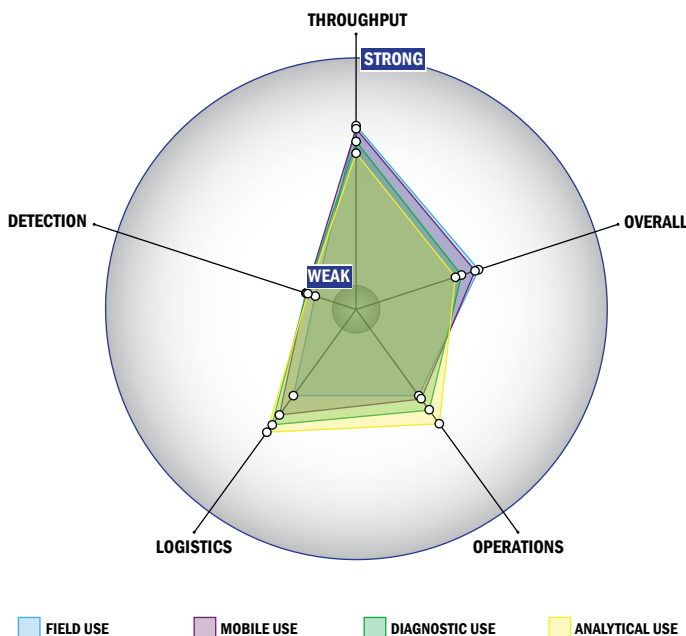
Scoring Analysis

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.



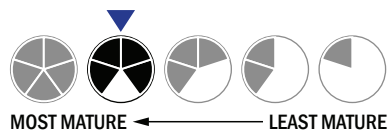
Evaluation Criteria

Throughput:

- Between 30 and 60 minutes for detection
- Multiple samples, multiple tests/sample per run
- 349-96 samples every 2 hours
- The system could easily be adapted into a fully automated system
- Device or system is intended for multiple detection assays
- 2 solutions, buffer, eluents, and/or reagents
- 2 components
- Less than 5 minutes is required for set-up
- 3-5 steps are required for detection

Logistics:

- An afternoon of training and some technical skills required
- Approximately the size of a toaster
- Between 25 and 50 kg
- Wired connections are available
- System or device has 110V electrical requirement
- Battery life



Operations:

- Can be used from 25 °C to 37 °C
- Components must be frozen (-20 °C)
- Device or system has peak performance at normal relative humidity conditions
- Results can be viewed in real-time
- The system or device is currently fully autonomous
- The system software is closed and not available for modification
- The system hardware is closed and not available for modification

Detection:

- Less than 10 µL
- Manual kit not integrated with the system handles spore lysis