

New standard of monitoring:

- Detects ALL bacteria - including pathogenic bacteria: *E.coli*, *Coliform*, *Legionella*, *Pseudomonas* etc.
- Real-time results - rapid reaction to irregular events
- Eliminates sampling gaps by continuous 24/7 monitoring
- In-line sampling - most accurate sampling method
- Autonomous - no need for operator. Automated sampling, testing, reporting, alerting
- Reagent-free - cuts down the cost and logistics of using biohazard materials
- Digitalization & Big Data - collect, understand, benchmark, and drive new actions and insights
- Low operational cost and various cost saving - chemicals, energy, time, water, lab resources

Operational efficiencies:



Minimize **Boil Alerts / Recalls** - immediately detect quality gradient shifts

- Detect sudden contamination
- Sensitive water monitoring - by single cell & particle analysis technology
- Internal contamination Alert unit



Detect water system **vulnerabilities**

- Water treatment / filtration failures
- Internal fouling
- Air pockets - standing water



Validate **water treatment** processes

- Validate bacterial level reduction along the water system
- Optimize processes and vendors equipment - i.e. filter replacement schedule, filtration type, automated chlorination - reduce DBP
- Validate the cleanliness of water systems - after CIP, post contamination event



Monitor **irregularities**

- Bacterial Level
- Duration, level and spread of irregularity
- Quality changes along seasons and climate changes



Improve **water data**

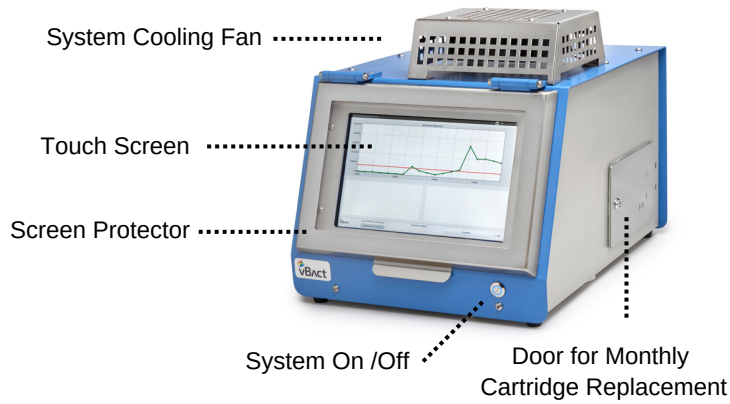
- Scanner provides "Big Data" +1,500 readings /day
- Digital output
- New parameters for improved water analytics and management



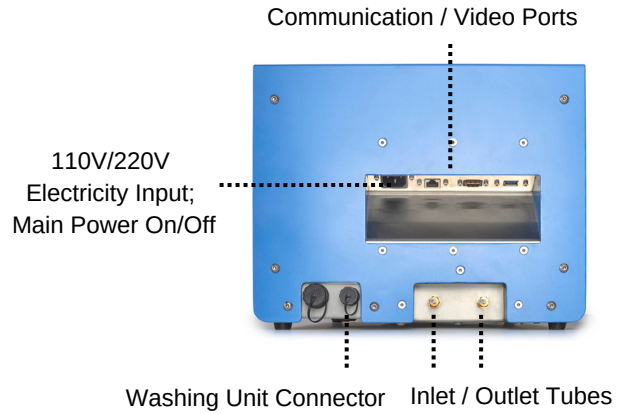
Economic **efficiencies**

- Less conventional testing
- Minimize human errors
- Automation
- Environmental friendly solution - no reagent and biohazard waste

Front Panel

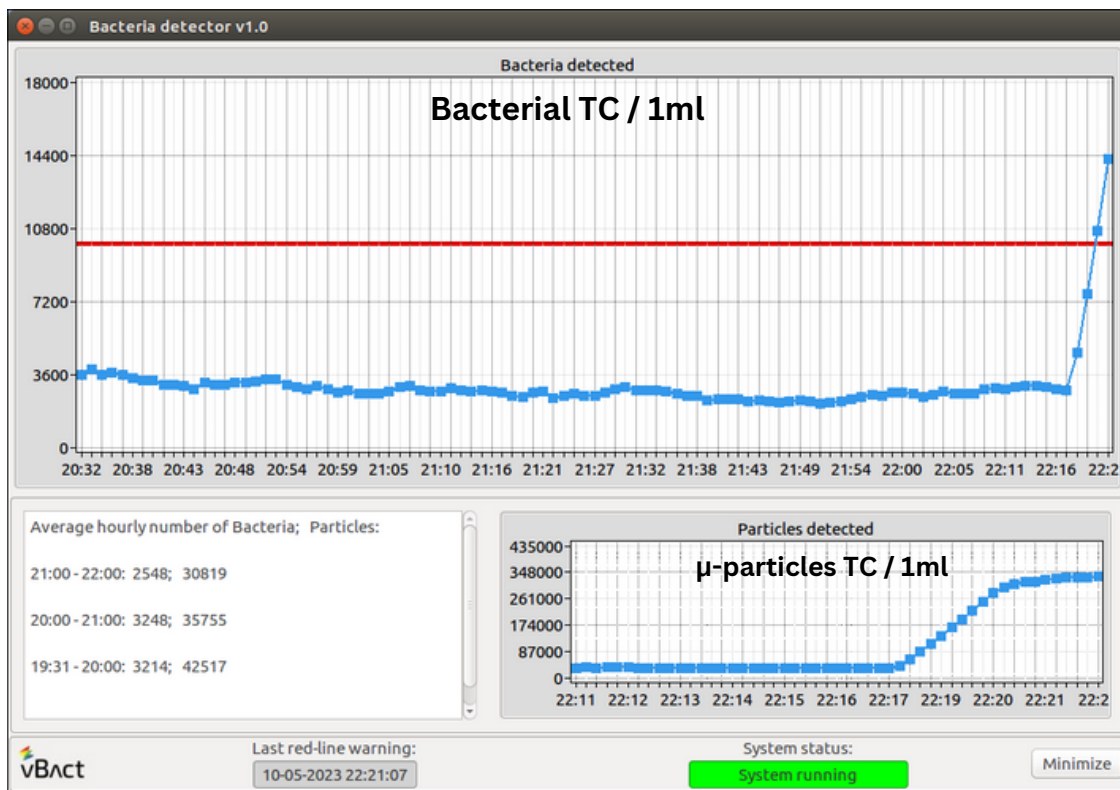


Back Panel



Fully automated, continuous monitoring

The Scanner main screen - clear quantitative results



Video - contamination detection demo in real-time:

<https://youtu.be/lzdsKBPB0i4>

Bacterial Water Scanner - Main Specifications

System dimensions / weight	45 x 33 x 28 cm / 12Kg
Sampling method	In-line analysis
Analysis time	Real-time
Cell / μ -particle Size	0.3 μ m and above
Water pipe connectors - inlet / outlet	4mm / 6mm, simple bypass connection
Power input	110V / 220V AC
Data output communication	LAN, Wi-Fi, Modem Cellular
Inlet liquid temperature	10 - 60 C ^o
Bacterial & μ -particles Limit of Detection	1 to 5x10 ⁶ / 1 ml
Water turbidity	NTU < 5
Disposable [periodical]	VBact Cartridge - flow-cell and pre-filter unit. Periodical replacement - up to one month
Operational ambient temperature / humidity	10 - 35 C ^o / 0-80%
Certification	CE, RohS

Ensuring Water Quality & Safety - Anytime, Anywhere



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