

automated non-contact liquid level detection

The VC100 uses ultrasonic technology to measure the height of the sample meniscus without coming into contact with the sample. The volume of each well of a 96 well plate is returned in 1 minute. This easy to use system provides a robust alternative to manual or visual well plate inspection.

applications

- Low or high sample volume detection in uncapped consumables
- Sample library inventory management
- Assay plate quality control
- QC/QA for assay development and DNA processing
- Detect sample volume for incoming plate samples
- Volume verification for plates before and after liquid handling operations

features

- Scans a 96 well plate in one minute
- Collects and outputs sample volume data for each well position
- Works with common lab solutions such as water, alcohol, DMSO and more
- Outputs data in easy-to-use LIMS formats

software

- Graphically displays the well plate volumes in columns and rows
- User interface designed for quality control applications
- Project-based software for multiple types of applications and labware
- Select or deselect rows and/or columns to scan for efficient throughput
- Includes plate data calibration table utility
- Easy-to-use Windows based software
- ActiveX toolkit available for integration projects
- Prints plate data reports

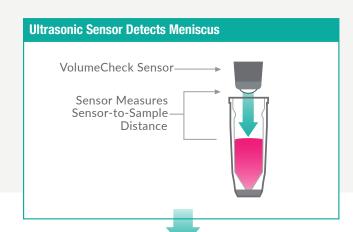
labware compatibility

- Compatible with a wide variety of consumables such as 24, 48, 96 well ANSI/SLAS standard racks, PCR plates, deep well blocks and assay plates
- Vials or tubes up to 92 mm in height (VC384 model compatible with labware up to 92 mm in height)
- No consumables works with your sample racks and plates



how it works

VolumeCheck measures sensor-to-sample distance of known sample volumes to create a calibration table. The sensor-to-sample distance decreases as larger amounts of sample are added to the well. Using a reference curve specific to each well plate or tube rack, the VolumeCheck instrument returns the volume of sample or compound in each well position.



VC100™ calibration table

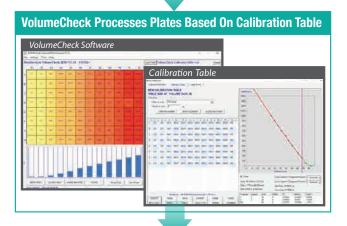
A sensor distance-to-volume calibration plot is generated by scanning known sample volumes in specific well plates or tube racks. The VolumeCheck software provides a utility to efficiently generate the data to establish the distance-to-volume reference tables. The volumes of unknown samples are scanned and extrapolated from a reference table.

system resolution and accuracy

The VolumeCheck system is a general purpose volume detection system for a wide variety of labware. The VolumeCheck liquid level sensor is capable of sensing changes in sample volume in the sub 10 μ L range. Resolution is dependent on labware and lab processes when using the system.

VC100[™] system resolution can be maximized by:

- Centrifuging sample plates to provide a consistent sample level
- Ensuring the reference table is optimized to the consumables and type of sample
- Reducing dimensional variation in labware



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16.	2005 (502	3	1 99.2127	95.2327	99,2327	99.2337	- 0	51.43	51,49	51.49	5L49		1/30/2014	9563
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	models	throughput speed	labware supported	48 and 24 well	96 well	384 well
	BioMicroLab VC100	one minute per plate	up to 52mm High	yes	yes	no
	BioMicroLab VC384	30 sec-3 min per plate	up to 92mm High	yes	yes	yes
CG .						

• Dimensions: 28cm x 68cm x 28cm (11"W x 24.5"D x 11.5"H)

Weight: 15 kg (33.25 lbs.) Electrical: 110-220 VAC 50/60Hz

• System Requirements: Windows 10, 8, 7 • 512MB RAM • One USB port

IQ/OQ: Installation Qualification / Operational Qualification Available

