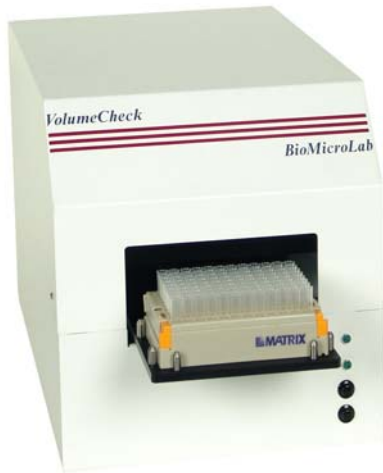


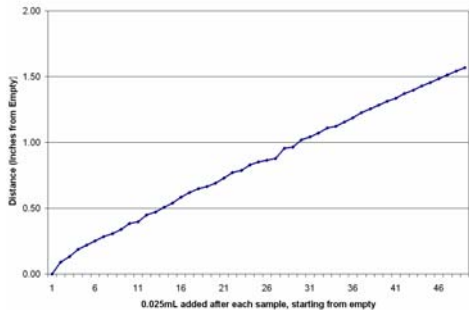
# VolumeCheck System

## Well plate / test tube volume inspection

Automated non-contact liquid level detection



Volume Measured as Distance (1.40mL tube)



### Sample volume calibration plot

A sensor distance to volume calibration plot can be generated by repeatedly increasing sample volume and re-scanning well plate (or tube rack)

- The volumes of unknown samples can be analyzed by extrapolation from a calibration plot
- VolumeCheck's software provides a method to efficiently collect data needed to develop the sensor distance to volume calibration plot

## VolumeCheck

Non-contact liquid level data collector

### Fast performance

- 60 seconds to scan 96 well plate (or tube rack)
- Collects liquid level data for each well (or tube)
- Sensor to liquid distance allows volume detection
- Use of calibration plot allows volume measurement

### Applications

- Low or high sample volume detection
- Sample quality control / cap detection
- Sample library management

### Checks sample volume in uncapped

- 96 well plates & 96 tube test tube racks
- Vials or tubes (up to 70mm height)
- Works with Water / Alcohol / DMSO

### System resolution: Inspection vs. Measurement

VolumeCheck's liquid level sensor is capable of sensing changes in a sample volume in the sub 10 $\mu$ L range, however VolumeCheck's actual system resolution may be reduced or altered by a variety of factors. The VolumeCheck system should be viewed as a high-speed (0.5 second per well or tube) liquid level inspection device as compared to high-resolution measurement devices, such as an analytical balance. A sensor distance to volume calibration plot is used to setup the VolumeCheck for volume inspection tasks. The calibration plot is specific to the labware and sample scanned. Dimensional variation in labware (ex. plate to plate dimension difference), quantity of sample in well or tube (ex. mid-tube sensing may be more linear), and sample placement (sample droplet on tube wall vs. tube bottom) can influence VolumeCheck's system resolution. Given these limitations, VolumeCheck is an appropriate tool for sample inspection applications such as detecting if well or test tube sample volume is above or below a specific volume range.

# VolumeCheck



## VolumeCheck 50

### Low Speed Sensor

- 3 minutes to scan 96 well plate or tube rack

### Applications

- Research
- QC tasks

### Labware support

- Well plate
- Deep well plate
- Tube rack (96 tube)

Low volume well plates or tubes may require an optional adapter bracket.

## VolumeCheck 100

### High Speed Sensor

- 60 seconds to scan 96 well plate or tube rack

### Applications

- Research / QC tasks
- Production monitoring
- Automated processing

### Labware support

- Well plate
- Deep well plate
- Tube rack (96 tube)

Low volume well plates or tubes may require an optional adapter bracket.

## VolumeCheck 100LV

### High Speed Sensor

- 60 seconds to scan 96 well plate or tube rack

### Applications

- Research / QC tasks
- Production monitoring
- Automated processing

### Labware support

- Tubes, vials, or well plates up to 70mm in height
- Tubes, vials, or plates with SBS or larger footprint

Non-standard well plates or tube racks may require an optional adapter bracket.

### Options

- Well plate adapter
- Tube rack adapter
- Non-standard plate / tube adapter
- ActiveX Controls

### Requires

- Win XP computer with PCI slot for I/O adapter
- Serial port & USB port

### Specifications

- Dimensions: 10.5" H x 10.3" W x 17.0" D
- Weight: 27 lbs.
- Electrical: 110-220 VAC 50/60Hz

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