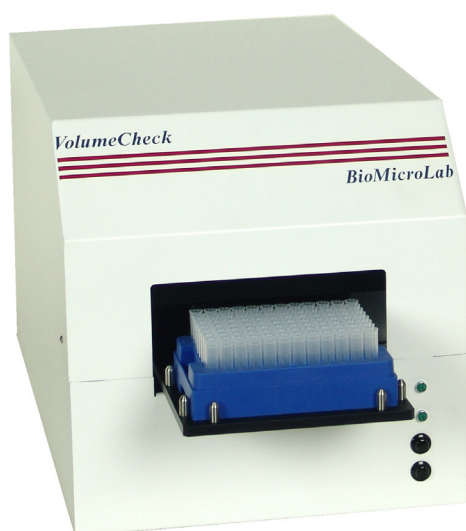


VOLUME CHECK SYSTEM

Automated non-contact liquid level detection for assay plates and sample storage tubes



Fast performance

- 45 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 for racked tubes
- Sample library management

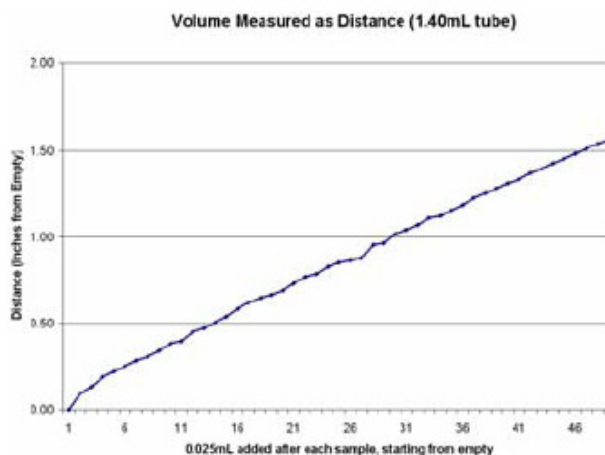
Checks sample volume in uncapped

- 96-well plates and 96-tube racks
- Vials or tubes (up to 70 mm height)
- Works with water / alcohol / DMSO

Sample Volume Calibration Plot

Create a sensor distance-to-volume calibration plot by repeatedly increasing sample volume and re-scanning the plate or racked tubes.

- Associated software collects data needed to develop the sensor distance to volume plot
- Extrapolates the volumes of unknown samples from the calibration plot





System Resolution: Inspection vs. Measurement

The VolumeCheck liquid level sensor is capable of sensing changes in a sample volume in the sub 10 μ L range. However, the actual system resolution may be reduced or altered by a variety of factors.

The VolumeCheck system should be regarded as a high-speed (0.5 second per well or tube) liquid level inspection device as compared to a high-resolution measurement device, such as an analytical balance. A sensor distance-to-volume calibration plot is required for volume inspection tasks. The calibration plot is specific to the labware and sample scanned. Dimensional variations in labware, well or tube volume, and sample position (sample droplet on the tube wall vs. tube bottom) can influence VolumeCheck system resolution. Within these limitations, VolumeCheck is an appropriate tool for sample inspection applications such as detecting if the well or test tube sample volume is above or below a specific volume range.

VolumeCheck Models

VolumeCheck 50

Low speed sensor, 3 minutes per 96-well plate or tube rack
1768-5150

VolumeCheck 100

High speed sensor, 1 minute per 96-well plate or tube rack
1768-5119

VolumeCheck 100LV

Large vial (up to 70 mm H), high speed, 1 minute per 96-well plate or tube rack
1768-5130

Each model requires connection to a computer with Windows[®] XP software and one USB port.

Specifications

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

Options

Adapter for 96-well plates
Adapter for 96-tube racks
Adapter for non-standard plates
Active X controls