Brooks Tube Auditor™
System Specification

Key Features and Benefits

- Rapid, non-contact volume measurement and precipitate detection in a single audit pass
- Minimizes downstream costs from the processing of empty plate wells
- Increases confidence in the concentration of delivered output samples
- Helps avoid damage to liquid handling tips caused by failed de-cap operations

Performance		
Rack Audit Time	96 tubes (in an SBS rack) in approx. 90 seconds[1].	
Volume Measurement[2]		
Range	25µl to 1000µl (typ.)	
Accuracy	35µl to 1000µl	±10µl (or better)[3]
	Less than 35µl	±15µl
Precipitate Detection (available with license 'Pro' Only)		
Depth	Minimum of 1.0mm[4]	
Tube Handling Error Rate	Better than 1 error per 20,000 tubes	

Specifications & Operating Requirements	
Size (L * W * H)	872mm x 433mm x 433mm (34.33" x 17.05" x 17.05")
Weight	35kg (77lbs)
Electrical Supply Requirements	100-240Vac, 50/60Hz
Certification	CE
Environment	10-30ºC; 10-90% RH, non-condensing

PC, Software & Interfaces	
System PC	Included
PC Operating System	Windows 10
PC Application Software	Brooks Tube Auditor
PC Communications Interface	Gigabit Ethernet and USB
Pre-installed Gigabit NIC[6]	Intel Gigabit CTDA893647
System Software	Pre-installed on System PC
Output Data Format	CSV or XML (User configurable)
Minimum PC Specification	▪ Processor - Intel Core 2 Duo, 2.4GHz ▪ RAM - 2GB min. ▪ Free disk space - 200GB minimum ▪ Monitor - 15" to 17" ▪ DVD Drive ▪ 1 Ethernet[7] ▪ 2 USB ports

Barcode Reading	
1D Rack Barcode	Integrated[8]; please contact Brooks to discuss location
2D Tube Barcodes	Option; please contact Brooks for details

Labware Compatibility

Brooks continues to add to the list of tubes and caps supported by the Tube Auditor.
Please contact your Brooks Life Sciences representative for the latest updates in labware compatibility.

1 Excluding reading of 2D tube barcodes when this option is fitted.
2 For standard '96-way microtubes' i.e. outside diameter ~7.5mm
3 Testing with a range of 0.75, 1.2 and 1.4ml tubes has shown accuracies of approx. ±6 to 8 µl
4 Precipitate detection is affected by a number of factors in addition to the actual quantity of precipitate; these can include, for example, the color of the precipitate and liquid sample, and the relative contrast between them. Testing with a variety of precipitates has shown good detection performance where there is greater than 1.0mm depth of precipitate in the base of the tube.
7 For connection to customer network
8 Class II laser device