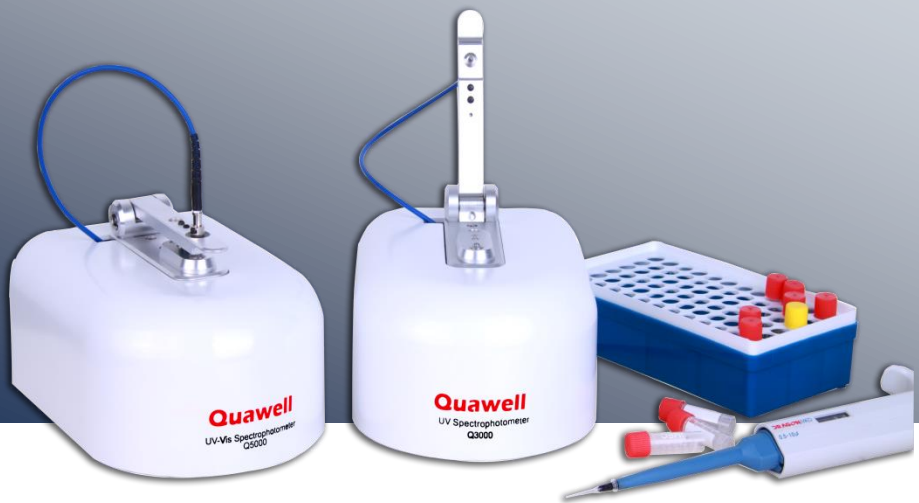


# Q5000 & Q3000

Rev. 06/2016 (Not available in USA)



## Q5000

UV-Vis (200-900 nm)  
Spectrophotometer

## Q3000

UV (260 nm & 280 nm)  
Spectrophotometer

**Quawell**

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## Advanced features



- Micro-volume sample size (0.5 - 2ul)
- No cuvette or any sample holder required
- No any consumables needed
- Using CCE technologies (software calibration)

## The unique liquid column technologies

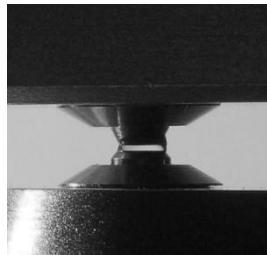


Figure 1: Initially the sample is loaded and the upper arm is closed.

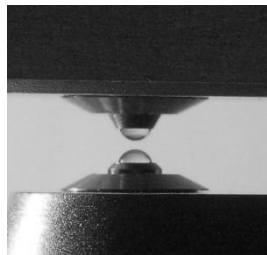


Figure 3: After reaching its home position, the upper arm is lowered. A liquid column is formed when the upper arm is lowered to the position where the two droplets touch. The measurement is then performed at this position without moving the upper arm upwardly again.

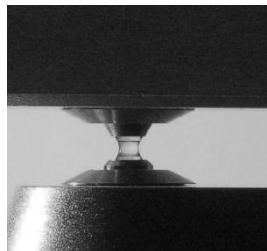


Figure 2: The upper arm is lifted by the actuator, due to molecular effects, the sample is broken into two separate parts, one part is attached to lower surface and the other part is attached to upper surface.

**Patent No.: US 7,969,575 B2**

# Q5000

## UV-Vis Spectrophotometer (200 nm – 900 nm)

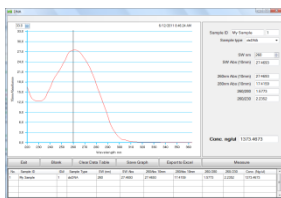
Quawell 5000 is a micro-volume UV-Vis spectrophotometer. Using our liquid column technologies, Q5000 measures a 2ul sample in about 3-8 seconds with a high degree of accuracy and reproducibility.



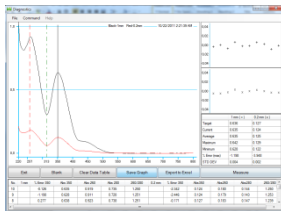
## Applications

<b>Nucleic acids</b>	dsDNA ssDNA RNA	<b>Prot. assay</b>	Protein BCA Protein Lowry Protein Bradford
<b>Protein A280</b>	BSA IgG Lysozyme 1 Abs = 1mg/ml	<b>Others</b>	Microarrays Dyed-Proteins Cell culture UV-Vis measurement

## Powerful Software



- Support Win XP, Vista & Win7 32 & 64
- Many useful features included
- Effect but Easy to use
- Free software updates download from website



- Auto-detect-analyzing light intensity
- Auto-detect-report liquid column condition
- Calibrating by software (with CCE technologies)
- Full spectrum data output feature

# Q3000

## UV Spectrophotometer (260 nm and 280 nm)

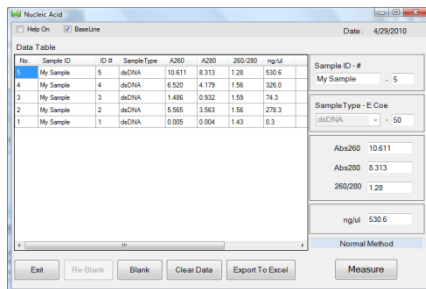
Quawell Q3000 is a micro-volume UV spectrophotometer specifically designed for the measurement of nucleic acids and proteins. Q3000 measures 2ul sample in less than 2 seconds with a high degree of accuracy and reproducibility.



## Applications

<b>Nucleic Acid</b>	dsDNA ssDNA RNA	<b>Protein A280</b>	BSA IgG Lysozyme 1Abs = 1mg/ml
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## Advantages



- LED light source
- No cuvette or consumables needed
- Sample size as small as 2ul
- Support Win XP, Vista & Win7 32 & 64
- Measure a sample in about 2 seconds
- Providing sample absorbance, concentration and 260/280 ratio
- Export data to Excel spreadsheet
- CCE technologies (software calibration)

## Specifications

	Q5000	Q3000
Normal Sample Size	2 ul	2 ul
Optic Path Length	0.2-1mm (auto selected)	0.2-1mm (auto selected)
Light Source	Xenon flash lamp	LED
Wavelength Range	200-850 nm	260 nm, 280 nm
Wavelength Accuracy	1 nm	1 nm
Absorbance Range	0.04 -80 (10 mm)	0.01-80 (10 mm)
Abs. Precision	0.002 Abs (1mm)	0.002 Abs (1mm)
Abs. Accuracy	± 2%	± 2%
Detector Type	2048 element linear silicon CCD array	Si photodiode
Detection Limit	2 ng/ul (dsDNA)	1 ng/ul (dsDNA)
Max Concentration	4,000 ng/ul (dsDNA)	4,000 ng/ul (dsDNA)
Measurement Cycle	~5-8 seconds	~2 seconds
Dimensions	145 mm x 210 mm	145 mm x 210 mm
Weight	2 kg	2.5 kg
Operating Voltage	12 vdc	12 vdc
Power Consumption	15 W (operating)	15 W (operating)
Power Consumption	1.5 W (standby)	1.5 W (standby)
measurement surface Construction	303 stainless steel and quartz fiber	303 stainless steel and quartz fiber
Software Compatibility	Windows® XP, Vista, Win7 (8) (10) 32 & 64	Windows® XP, Vista, Win7(8) (10) 32 & 64
CE Approval	Units sold in Europe	Units sold in Europe
Patent No.	US 7,969,575 B2	US 7,969,575 B2

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