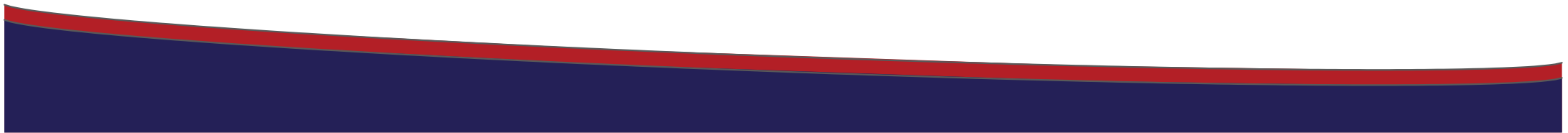




Tip Biosystems

Presentation

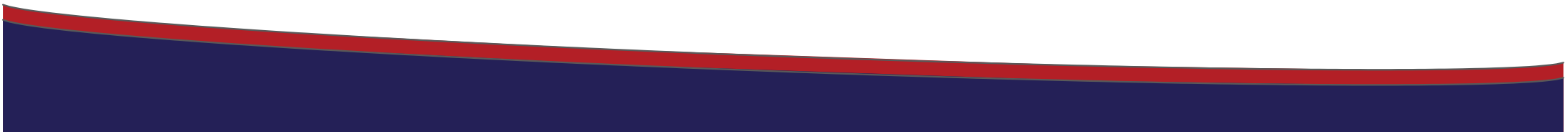




Founded in 2014, Tip Biosystems is the leader in agile spectrophotometry with its flagship brands Photopette® and Spectropod®.

Our vision is to create a global brand and to become one of Asia's largest laboratory devices and consumables company within the next ~8 years. Furthermore, we strive for leading scientific innovation and revolution by creating a wide range of spectrophotometers / photometers as well as accompanying software for a variety of applications.

Our mission is to manufacture new, revolutionary spectrophotometers / photometers which are available and affordable for key industries in global markets where UV-VIS measurements are commonly used.



Tip Biosystems® – Spectrophotometers



Photopette® – Ultra Portable Handheld Spectrophotometer

Photopette® revolutionized the workflow of spectrophotometer.
Measure directly in your sample and increase efficiency



Spectropod® UV – Microvolume Spectrophotometer

Spectropod® UV is a microvolume spectrophotometer for nucleic acid
and protein measurements.

Photopette® *Handheld Spectrophotometer*



The **Photopette®** product family consists of several models that differentiate in the supported wavelengths.

It offers the convenience, performance and seamless integration with cloud, web and mobile computing expected from contemporary devices and applications, saving users precious sample and time, while still producing precise and accurate results.

This portable spectrophotometer enables users to dramatically improve the workflow and increase productivity through speed and portability.

Photopette® *Handheld Spectrophotometer*



MODELS	WAVELENGTH
BIO	260 nm, 280 nm, 340 nm
CELL	340 nm, 570 nm, 600 nm
TURBIDITY	570 nm, 850 nm
OD600	600 nm
AQUA	525 nm, 550 nm, 680 nm

Photopette® *Handheld Spectrophotometer*



Applications:

Life Science

- Bradford Assay, DNA Measurement, Lactate Assay

Water & Environment

- Multi-parameter water measurement, Determination of Biomass in spirulina cultures, direct turbidity measurement.

Industrial

- On-site nickel measurement, direct turbidity measurement.

Food & Beverages

- Determination of: Ethanol in alcoholic beverages, Lactate concentration, Biomass in Spirulina Cultures.
- Dal quality classification, Yeast cell count, Quantification of soluble starch from fresh potatoes.

Photopette® *Handheld Spectrophotometer*



Product Information

Voltage:	110 - 220V
Weight:	160 g
Dimension:	202 mm x 47 mm x 42 mm
Measurement Time:	Within 2s per measured wavelength
Warm-up Time:	None
Lifetime (light-source):	More than 500,000 measurements



Features

- Direct Measurements - No Sample Transfer
- Recalibration and Maintenance Free
- Small Footprint
- Bluetooth Connectivity
- Intuitive Software
- No Warm Up Time
- Results within 2 Seconds
- Battery Powered

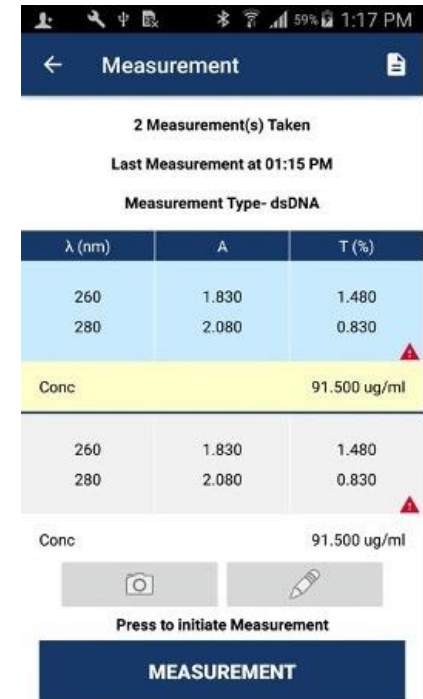
Photopette® *Handheld Spectrophotometer*

Measurement Workflow



Attach the CuveTip™ to the Photopette® device.

Insert the CuveTip™ into the sample and start measurement.



Measurement result will be shown on the app.

Spectropod® UV *Microvolume Spectrophotometer DNA & Protein Measurement*



Spectropod® is a benchtop fixed-wavelength spectrophotometer for rapid, on-spot analysis. It works together with tablet using a dedicated application which connects via a Bluetooth link for taking measurements and data-transfer.

The Spectropod® App is designed for using different pre-programmed Application Types with a high degree of flexibility and accessibility.

It is a mobile, simple to use UV/VIS spectrophotometer instrument with a unique measurement well for easy sample application coupled to a detector for accurate and precise measurement.

Spectropod® UV *Microvolume Spectrophotometer* *DNA & Protein Measurement*



Product Information

Voltage:	110 - 220V
Weight:	0.55 kg
Dimension:	ø 12 cm x 14.5 cm
Sample Volume:	6 µl
Well Depth:	1.6 mm
Optical Path Length:	3.2 mm
Wavelengths:	260 nm, 280nm

Features

- Recalibration and Maintenance Free
- Small Footprint
- Bluetooth Connectivity
- Intuitive Software
- No Warm Up Time
- Battery Powered (Lithium Ion)

Spectropod® UV *Microvolume Spectrophotometer* *DNA & Protein Measurement*



Measurement Workflow



Insert sample through the well on top with the help of a pipette.

Place the cap back on top of the sample well and start measurement.



15:58 Wed, 2 Aug 97%
← Measurement Detail

Measurement Type: 260 nm

λ (nm)	A	T (%)
260	1.228	5.915
260	1.228	5.915
260	1.215	6.095
260	1.216	6.081
260	1.215	6.095
260	-0.051	112.460

Measurement result will be shown on the app.

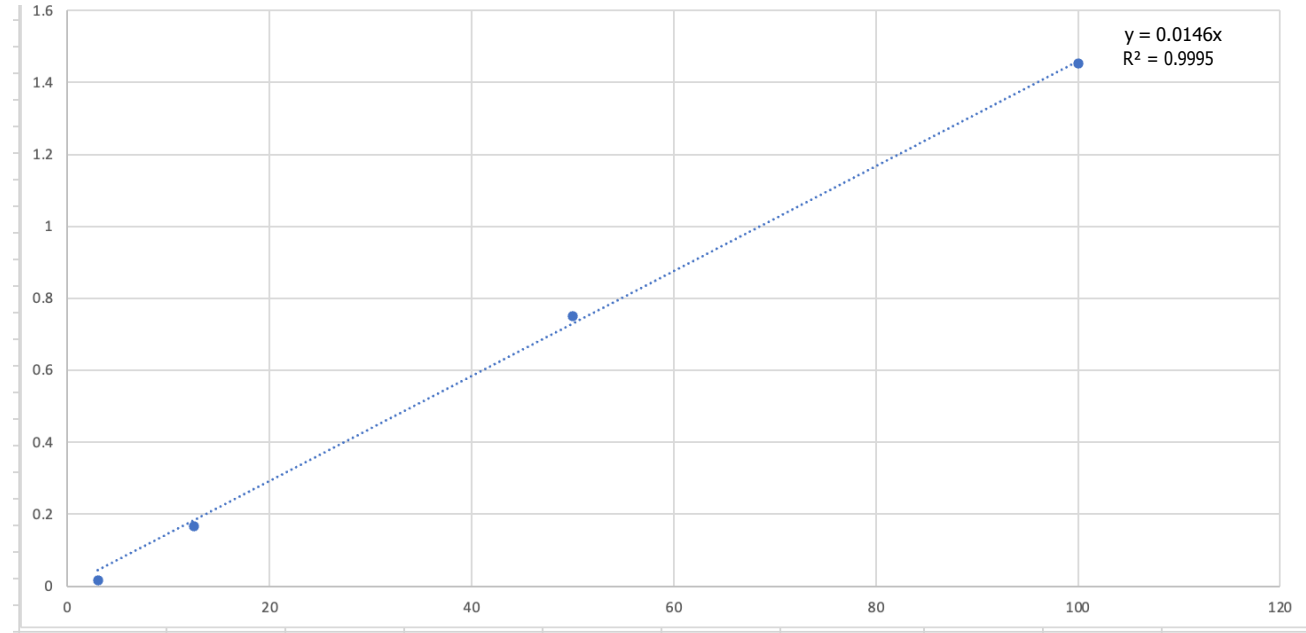
Spectropod® UV *Microvolume Spectrophotometer* *DNA & Protein Measurement*



DNA Standard Curve

- 3 ng/μL – 100 ng/μL
- Sample volume 6 μL Linearity with R-square of 0.999
- No carry over contamination

Spectropod DNA Measurement (260nm) from 3ng/μL – 100ng/μL

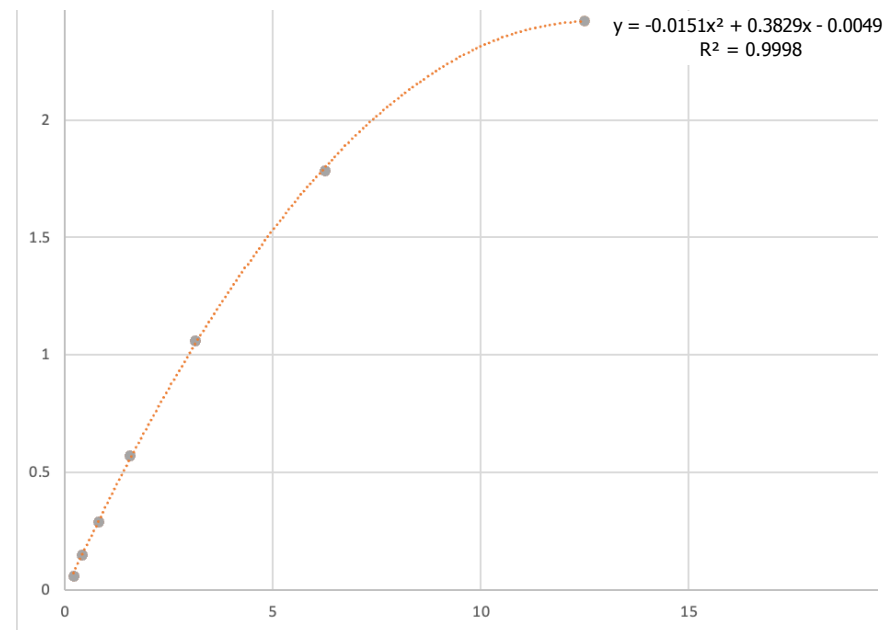


Spectropod® UV *Microvolume Spectrophotometer* *DNA & Protein Measurement*



Protein Standard Curve

- 0.1 mg/mL – 50 mg/mL
- Sample volume 6 μ L
- Linear up to 12.5 mg/mL with R-square of 0.99
- Saturation of measurement (> 3.5 Abs) at 25 mg/mL
- No carry over contamination



Spectropod BSA
Measurement (280nm)
from 0.2mg/mL

