

SINCE 1889



# Boost Lab Productivity and Free Up Your Dedicated Hi-Throughput Stations



Reduce Spills, Waste,  
Cleanup and Contamination



No Dedicated PC.  
Quick Results from Tablets



With **YAMATO's NEW**

Photo Absorbance Meter

# PiCOEXPLORER™

The PiCOEXPLORER eliminates critical bottlenecks in laboratory processes.

## Free Up Dedicated Resources

- use anywhere, on a bench, under a hood
- quick results on one-off analyses

## No Pipettes or Cuvettes

- analyze directly in unopened PCR Tube
- reduced contamination risk
- no sample loss

## Mobile App Connectivity

- Bluetooth enabled
- free app for quick results on your mobile devices

## Super Affordable, Productive

- no special consumables
- multiple PiCOEXPLORERs at critical process points eliminate bottlenecks!
- compact and light weight

Your portable, personal PAS for Lab and field work.

## SPECIFICATIONS

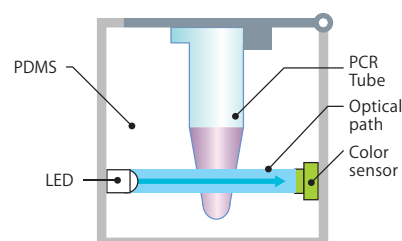
### PAS-110 Hardware Unit

Dimensions	70 x 150 x 30 mm (excluding protrusions)	
Weight	about 200g (including batteries)	
Power	<ul style="list-style-type: none"> <li>• 4.5V DC (3 AAA-type batteries)</li> <li>• 5V DC (micro-USB connector <sup>1)</sup>)</li> </ul>	
Battery Life	about 5 hours <sup>2</sup>	
Usage Environment	Temperature/Humidity	5-35°C, 70% RH or less
	Altitude	2000m or less
	Installation Condition	indoor, pollution degree 2
Measurement	Total Samples	1 sample
	Time	1 second or more
	Absorbance Range	0.02 or more (Gentian violet dilute solution)
Sensor Unit	Light Source	White LED
	Detector	Color Sensor
Communication Interface	Bluetooth low energy (Bluetooth smart) Class2	
Compatible Tablet	Android 5.0 or later, iOS 9.1 or later	
Recommended PCR Tube	Specification of PCR Tube Cap type : Flat, Volume : 0.2mL	
Minimum Sample Volume	30μL <sup>3</sup>	

### Appearance



### Detector



- 1 Use the cable to connect to a computer or other appropriate power source to power the unit without batteries (the device automatically senses the power source; this connection cannot be used to transmit data.)
- 2 This battery life is based on using new, fully-charged batteries. However, battery life cannot be guaranteed as different operating conditions can alter battery life drastically.
- 3 With a sample volume of 30μL, be sure to measure with the device tilted 10° or less from the horizontal.

## APPLICATIONS

- Measurement of bacterial turbidity
- Quantification of protein (BCA method, Bradford method)
- Measurement of antioxidant activity
- Amino acid measurement (ninhydrin method)
- Quantification of glucose
- Environmental water analysis
- Analysis of heavy metals

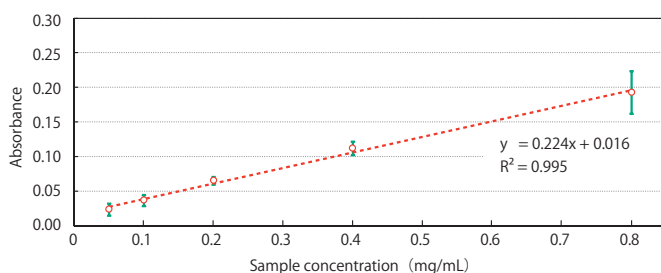


PAS-110



### Calibration curves

Protein Quantification with PiCOEXPLORER Bradford assay



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PAS-110-YU ▶



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For the development of scientific technologies

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