

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 Sensor

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

Mobile App Connectivity

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

No Pipettes or Cuvettes

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

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

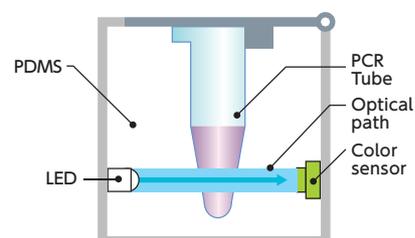
PAS-110 Hardware Unit

Dimensions	70 x 150 x 30 mm (excluding protrusions)	
Weight	about 200g (including batteries)	
Power	<ul style="list-style-type: none"> • 4.5V DC (3 AAA-type batteries) • 5V DC (micro-USB connector 1) 	
Battery Life	about 5 hours ²	
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 ³	

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.

Two types of calibration curve available: preset or simple generation

To use a preset calibration curve

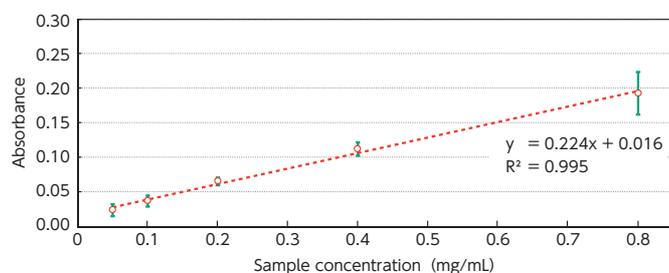


To generate a calibration curve



Calibration curves

Protein Quantification with PICOEXPLORER Bradford assay



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IC: 20775-USHIOPAS



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For the development of scientific technologies

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