

SINCE 1889



Whenever, Wherever, Palm-sized Absorbance Sensor PICOEXPLORER



Good for **Turbidity Measurement!**

- Compact!**
Handheld
- Portable!**
Battery Powered
- Quick!**
~ 1 sec. scan
- Minimal!**
30μL sample
- Easy!**
Measure by App
- Affordable!**

On the lab table
Inside a clean bench
Out in the field
Wherever you need to measure

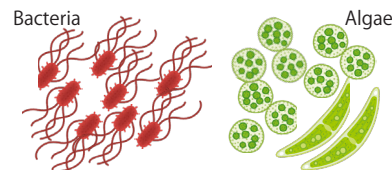


Use your smart phone or tablet

Measure in minutes

Food / Cosmetics / Chemical / University / Environment

Turbidity of Microbes



Field | Food / Cosmetics / University

Degradation of Oil (Turbidity)



Field | Food / Chemistry

Turbidity of Foods



Field | Food

Quantitative Analysis of Glucose



Field | Food / University

Quantitative Analysis of Amino Acid, Protein



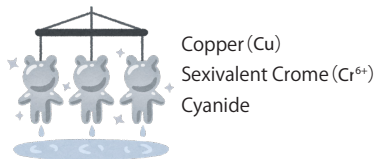
Field | Food / Cosmetics / University

Quantitative Analysis of Minerals



Field | Food / Cosmetics

Quantitative Analysis of Plating Solution



Field | Chemistry

Quantitative Analysis of Nitrite Ion

Coupler Agent for Hams / Sausages



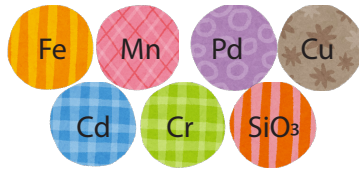
Field | Food

Anti-Oxidation Activity



Field | Food

Quantitative Analysis of Metal Ions



Field | Chemistry / University

Water Quality Measurement



Field | Environment / Chemistry

Beverage Color



Field | Food

Useful for Hands on Experiments



1 unit per person makes a big difference in a study

Easy Operation with your Smart Phone or Tablet

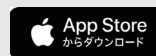
Put small amount of sample into a PCR tube then set it on the PiCOEXPLORER



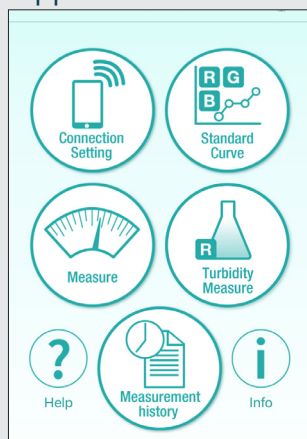
Operate PiCOEXPLORER from your smart phone or tablet by downloading a special application that uses bluetooth communication



PAS-110



Application Guide



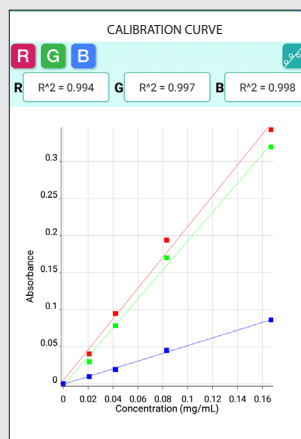
Menu

When PiCOEXPLORER is connected using bluetooth communication, tap desired measurement

TURBIDITY			
実験名			
ピーク波長: 615nm 波長範囲: 575~660nm			
No.	O.D.	日時	
1	0.273	2019/08/16 16:44	
2	0.273	2019/08/16 16:44	
3	0.273	2019/08/16 16:44	
4	0.273	2019/08/16 16:44	
5	0.273	2019/08/16 16:44	
6			
7			
8			

Turbidity

Measure turbidity as Optical Density of R-sensor. No required calibration curve.



Calibration Curve

Calibration curve will be drawn for all of R.G.B sensors. Any curve can measure Quantitative Analysis.

TURBIDITY			
実験名			
ピーク波長: 615nm 波長範囲: 575~660nm			
No.	O.D.	日時	
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8			

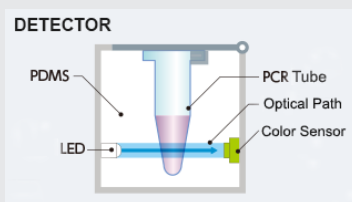
Measurement

Set the sample in PCR tube then tap the "Measure" icon. Scanning takes approximately 1 second.

Specification

Model	PiCOEXPLORER PAS-110-YU			
Light source	White LED			
Detector	Color sensor	Color	Max. Absorption Wavelength	Wavelength Range
		Red	615nm	575-660nm
		Green	530nm	455-630nm
		Blue	460nm	400-540nm
Compatible PCR tube	Cap: Flat type*1 Volume: 0.2mL			
Power source	AAA batteries x 3			
Dimension	D70 x W150 x H30 (mm)			
Weight	200g			

*1 Dome-shaped PCR tube will not fit.



SINCE 1889



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