

## ATP7100

# On-line, In-situ, Flow, Full-spectrum Absorbance & Transmittance Analyzer

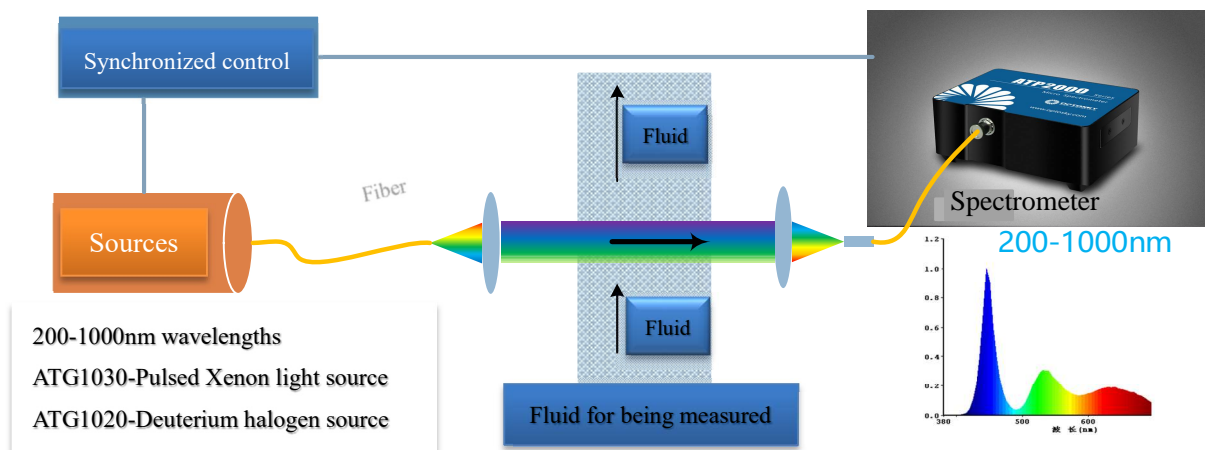
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## Working principle

Optosky ATP7100 portable VIS-Spectrophotometer is newly launched, and Lambert-Beer Law applied, used to measure absorbance to determine concentration. It features smart size, fast accuracy, easy-to-take, and full spectrum etc. So it can operate couples of fast detect at lab, on-site, field site. It can configure built-in exclusive detection methods, pre-treatment accessories and reagent, and it's an ideal choice to perform fast detect and on-site operation for food, water quality and soil etc. This series of spectrophotometers divide into several application including on-line, in-situ and fluid etc., and they are widely applied to sectors in chemicals, pharmaceuticals, QA/QC, sanitary, hydraulic power, municipal project, scientific research, grain and agriculture etc.



Features	Application
<ul style="list-style-type: none"> <li>● In-situ, on-line, real-time collect and analyze data of concentration</li> <li>● Save time, cost and resource</li> <li>● Efficiency to make decision</li> <li>● Easy-to-operate and maintenance in controllable research condition</li> <li>● Wavelengths: <b>190-1020 nm</b></li> <li>● Fast detect efficiency: <b>1 ms per full-spectrum absorbance</b></li> </ul>	<ul style="list-style-type: none"> <li>● Food safety</li> <li>● Monitor water quality</li> <li>● Real-time monitor chemical experiment</li> <li>● Small dose dissolution</li> <li>● Tablet and powder</li> <li>● Auxiliary sorting</li> <li>● Nano particles dissolution</li> <li>● Salt-type sorting</li> <li>● Properties dissolution</li> <li>● Media and PH value change</li> <li>● Stability detect</li> <li>● Oversaturation research</li> <li>● Solubility: water or water-free</li> <li>● Biological related dissolution media</li> </ul>

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## 2. Products selection

	ATP7100-ONL	ATP7100-INS	ATP7100-FLW
Detect types	On-line	In-situ	Flow

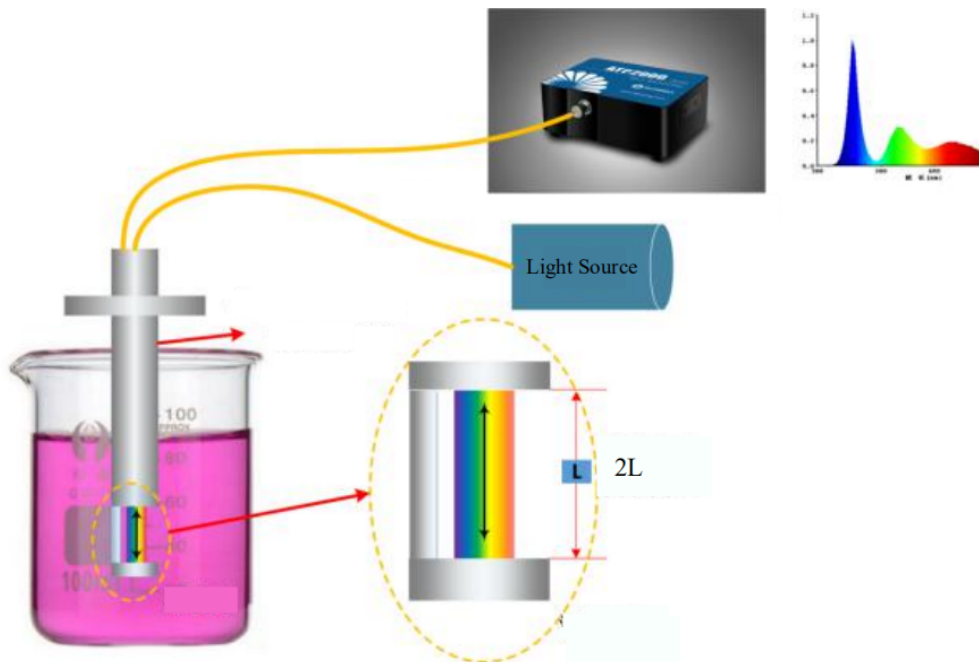


Fig 1 ATP7100-INS In-situ probe and working principle

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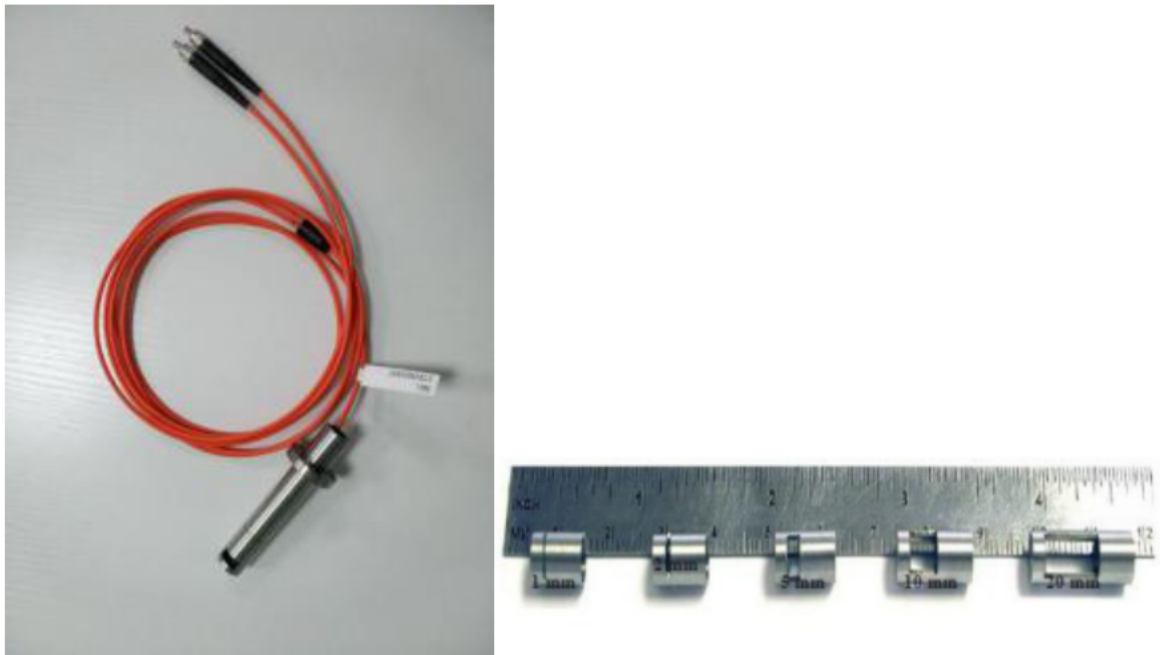


Fig 2 ATP7100-INS changeable front-end of probe,  
Various scale used to measure absorbance of different samples

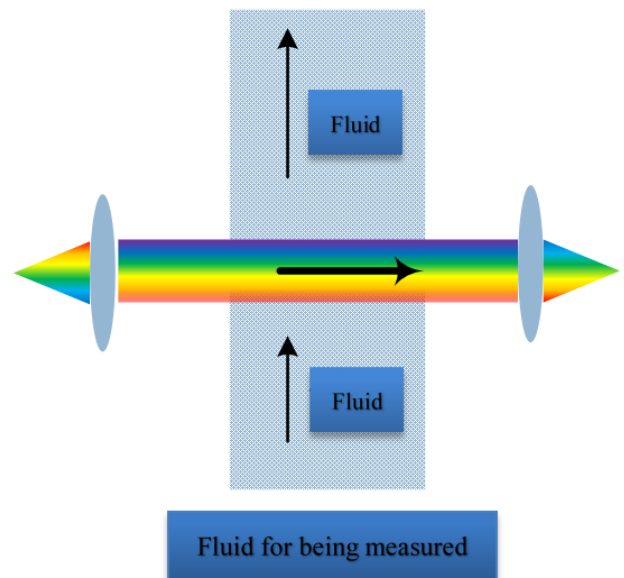


Fig 3 ATP7100-ONL On-line spectrum analyzed probe and working principle

ATP7100 data sheet

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Item	ATP7100-VIS	ATP7100-XR	ATP7100-DUV	ATP7100-NIR
Wavelengths	400-850nm	300-1100nm	190-1000nm	900-1700nm
Fast detect speed (ms)	2	2	2	5
Absorbance detect range	3.0	3.0	3.0	3.0
Accuracy of maximum absorbance detected	0.005	0.005	0.005	0.005
Samples	Fluid	Fluid	Fluid	Fluid
Wavelength scale (nm)	0.22	0.39	0.40	1.56
Wavelength resolution (nm)	0.90	1.4	1.4	10
Fiber length (m)	1	1	1	1

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