

## SPECIFICATIONS

	LWCC-5005	LWCC-5010	LWCC-5025
Optical pathlength [mm]	50	100	250
Internal volume [μl]	40	80	200
Wavelength range [nm]	200 – 1000	200 - 1000	230 - 1000

Transmission @ 254 / 540 nm 1 [%]	>20
210x40x50	210x40x50
Weight [kg/lbs.]	0.27/0.6
Fluid connection	10-32 coned standard HPLC port
Wetted Materials	PEEK, Fused Silica, TEFLON
Maximum Pressure [PSI/Bar]	75/5
Solvent compatibility	Organic and inorganic solvents compatible with wetted materials

Notes: 1. Transmission reference: Two 600 μm fibers, butt-coupled  
2. WPI U.S. Patents: 5,444,807; 5,570,447; 5,604,587; 6,603,556; 6,385,380

## ABOUT WPI

**World Precision Instruments (WPI)** is dedicated to the advancement of science and has been supporting the scientific community with innovative and unique solutions to further its research. WPI is a global leader in the design, manufacture and supply of animal physiology research equipment. Its products have 1000s of citations in notable peer-reviewed publications. WPI also has a broad range of instruments and supplies for research in regenerative medicine, developmental biology, genetics, oncology, toxicology, cardiovascular, neuroscience, etc.

### ISO9001:2015 CERTIFIED

Our US inspection process is hinged on our ISO9001:2015 certification to ensure you receive quality products.



ISO 9001: 2015  
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## WORLD PRECISION INSTRUMENTS

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NEW

# LIQUID WAVEGUIDE CAPILLARY CELLS



www.wpiinc.com

LWCC 5000 Series

# LWCC 5000 SERIES

The LWCC-5000 series are new fiber optic flow cells with a larger inner diameter of 1 mm. High UV/VIS/NIR absorbance and turbidity applications are possible with this new flow cell, based on WPI's established liquid core waveguide technology. The result is an enhancement of sensitivity and improved limits of detection when compared with conventional spectroscopic sampling techniques. Wetted parts in the sample cell light path are PEEK, fused silica and Teflon. Optical fibers are used to transport light to and from the sample cell.



## FEATURES

- Flowcell for absorbance and turbidity
- 50, 100 and 250 mm pathlength
- UV, VIS and NIR
- SMA 905 fiber coupled
- Continuous flow and discrete sampling
- Larger core inner diameter accommodates larger particles in the liquid than what is possible with our 3000 and 4000 series LWCC



## APPLICATIONS

- DNA, RNA and protein quantification
- Flow injection analysis
- Colorimetric nutrient and trace metal analysis
- Drug discovery
- Process control
- Preparative HPLC analysis
- Colored Dissolved Organic Matter (CDOM)
- Turbidity with particles < 100  $\mu$ m

## BENEFITS

- Improved baseline stability of aqueous samples because of larger inner diameter
- Enhanced sensitivity and improved limits of detection with WPI's patented waveguide technology
- Versatile sampling accessory used in spectrophotometry for low detection limits
- Connects directly to a peristaltic pump, WPI's sample Injector assembly (# 58006), and the LWCC Start-up Kit (#KITLWCC)