

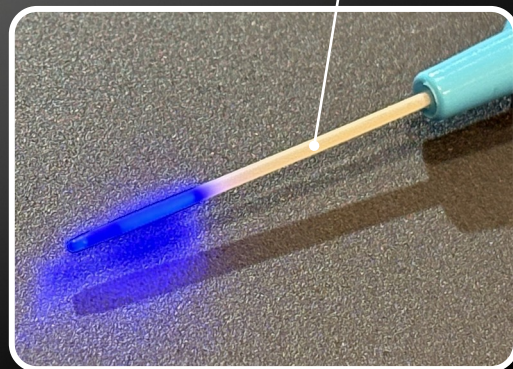
Ultra-thin Cylindrical Diffuser CD-2XS2

fits through a 22G cannula

OD 450 μm

22G cannula

OD 840 μm



For research use only. Not CE marked.

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LifePhotonic

Ultra-thin Cylindrical Diffuser CD-2XS2

Uniform cylindrical light for small-volume targets

The CD-2XS2 brings uniform radial light into target volumes up to ~10 mm in diameter – for preclinical research in interstitial PDT, NIR photoimmunotherapy, photothermal therapy, optogenetics and light-controlled gene expression.

- **CD-2XS2-05 / -10:** 5 or 10 mm diffusing tip
- **Ultra-thin:** OD ~450 µm, fits through a 22G cannula
- **Uniform emission** along the diffuser – no hot spot at the tip, less tissue heating
- **Highly flexible**, 2.0 m fiber length
- **Standard wavelengths:** 400–455 nm · 630–810 nm · 860 nm
- Other wavelengths on request
- **MR-compatible fiber** – long versions for NMR spectrometers and MRI on request
- No X-ray marker

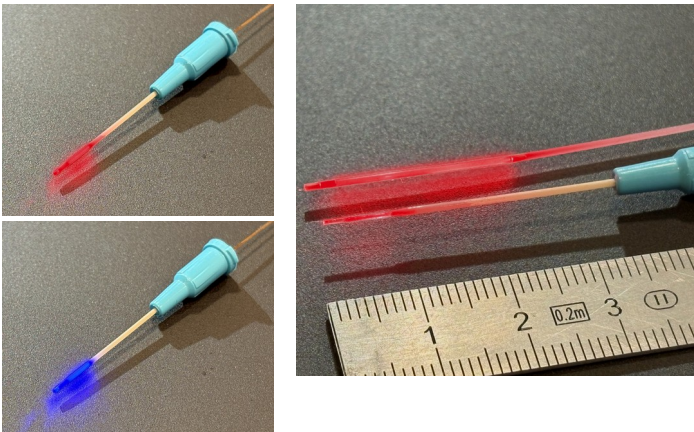
Research applications

Interstitial PDT
NIR photoimmunotherapy
Photothermal therapy, drug release
Optogenetics (heart, nerve, gut)
Light-controlled gene expression
In situ NMR illumination, photo-CIDNP
MRI-monitored light delivery

630–690 nm
~690 nm
808–860 nm
blue / red
blue to far-red
400–455 nm, red
on request



lipo.eu/cd-2xs2



Top left: CD-2XS2-05 in 22G cannula, 660 nm · **Bottom left:** same, 450 nm
Top right: CD-2S3 (upper fiber) and CD-2XS2-05 in 22G cannula (lower fiber), scale in cm

Device Characteristics		
	CD-2XS2-05	CD-2XS2-10
Outer diameter	~450 µm	
Diffusing tip	5 mm	10 mm
Fiber length	2.0 m	
Cannula	fits 22G	
Standard wavelengths	400–455 nm · 630–810 nm · ~860 nm	
Other wavelengths	on request	
X-ray marker	none	
MR compatibility	fiber MR-compatible; long versions on request	
Connector	SMA 905	

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