

## **PhotoDynamic Therapy (PDT) Services**

### **Endobronchial & Oesophageal PDT treatment with Photofrin®**

Excel Lasers Limited is a leading UK supplier of medical lasers and associated consumables. Our portfolio includes surgical lasers, optical fibres, service and repair. Our staff developed the original Diomed lasers, at various wavelengths, including 630 nm for treating Endobronchial and Oesophageal cancers with Photofrin®. This experience enables us to offer a complete and affordable package to help you perform PDT in the UK. The package includes the use of a Diomed PDT laser and provision of the appropriate diffuser fibres (see overleaf for a summary of our range).



**EXCEL LASERS**

The Diomed 630PDT laser system is arguably still the best platform available for the treatment of endobronchial and oesophageal cancer utilising Photofrin® for Photo Dynamic Therapy. Diomed systems are in use in some of the best cancer institutes worldwide, with proven success in the treatment of these cancers.

[www.excellasers.com](http://www.excellasers.com)      [info@excellasers.com](mailto:info@excellasers.com)



**PHOTOFRIN®**  
(porfimer sodium) for Injection

Photofrin® is the applicable drug for PDT at 630 nm and must be ordered by the physician from Pinnacle Biologics' official stockist in France (contact details available on request).

[www.photofrin.com](http://www.photofrin.com)

**Medlight**

Excel Lasers Limited is an authorised distributor of Medlight diffuser fibres. Please see overleaf for a summary of the available products suitable for PDT.

[www.medlight.com](http://www.medlight.com)

**Contact us for information on treating at other wavelengths,  
for example 635 nm, 652 nm & 670 nm**



Excel Lasers Limited is associated with other specialist PDT companies around the world, notably Pinnacle Biologics Inc., the US licence holders for Photofrin® and PDT Services of France, owned and run by Didier Boucher. A PDT veteran, Didier supports PDT in Europe in a similar way to Excel Lasers in the UK.

[www.pinnaclebiologics.com](http://www.pinnaclebiologics.com)      [www.pdt-services.fr](http://www.pdt-services.fr)



**For further details, please contact us at:**

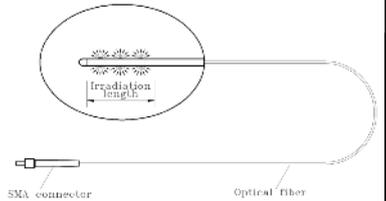
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## PDT Diffuser Fibres & Probes

### CYLINDRICAL DIFFUSING TIP FIBRES *supplied sterile (2 year shelf life) in peel-open package, intended for single use only*

The RD and RD-ML cylindrical light diffusers are radially-emitting fibres, available in a range of sizes, suitable for intraluminal Photodynamic Therapy. The RD-ML range utilises a glass fibre core, providing excellent optical efficiency - it is the closest equivalent to the DCYL fibres originally available from Diomed. The RD range has a plastic fibre core, making it very flexible and a good choice for applications where tight bending is required e.g. biliary duct PDT. Both types produce a radial light pattern, which is homogeneous all along the diffuser tip.

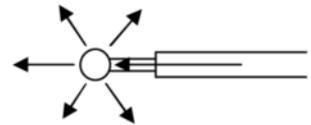
Order code			Overall Diameter	Overall Length	Max. Power Density (in air)	Absolute Max. Input Power
Plastic	Glass	Illumination Length				
RD10	RD-ML10	10 mm	0.98 mm	RDxx = 2.5 m RD-MLxx 3.0m	0.5 W/cm (cw)	2.0 W (cw)
RD20	RD-ML20	20 mm				
RD30	RD-ML30	30 mm				
RD4	RD-ML40	40 mm				
RD5	RD-ML50	50 mm				
RD60	RD-ML60	60 mm				
Other lengths on request						



### SPHERICAL LIGHT DIFFUSER *Supplied sterile in peel-open package, intended for single use only*

The spherical diffuser is a fibre-based catheter. Coupled to a laser source, the spherical diffuser isotropically emits light at its distal end. The SD diffuser must only be used with an approved Photodynamic Therapy protocol.

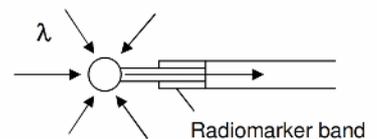
Order code	Description
SD200	Tip diameter 2mm



### ISOTROPIC PROBE *Supplied sterile in peel-open package, intended for single use only*

The isotropic probe is a fibre-based catheter intended to be used for measuring light intensity in a diffusing medium such as biological tissue. The small spherical tip of the probe collects the light in a large solid angle with an identical efficiency. The probed light is guided by the fibre to the proximal end of the catheter and can be coupled to a photodetector through an SMA905 connector. The isotropic probe can be manufactured with a gold radiomarker band and consequently the measurement position can be located in the tissue.

Order code	Description
IP85	Tip diameter 2mm

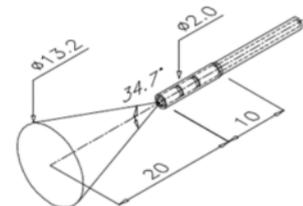


### FRONTAL LIGHT DISTRIBUTOR *Supplied sterile, multiple use, 10 times*

The FD1 frontal light distributor produces a circular spot of light, with sharp edges and an outstanding homogeneity. These properties make it the ideal device for precise irradiation of a variety of organs treated with Photodynamic Therapy (PDT) in patients or animals (skin, head and neck, lungs, etc.). The uniform light pattern is also perfectly suited for illuminating cell cultures or to be used as a calibration source for light sensors.

Its particularly wide aperture angle is very useful when there is little space to irradiate the tumour. This is often the case when performing PDT endoscopically, for instance by treating bronchial spurs. The small overall diameter of 2 mm allows endoscopic use through the working channel of a standard fibrescope. The FD1 frontal light distributor works with wavelengths ranging from 480 nm to 800 nm, making it suitable for a variety of photosensitisers. Suitable cleaning, decontaminating and disinfecting of the FD1 frontal light distributor is performed according to standard endoscopic material procedures.

Order code	Description
FD1	Overall diameter 2mm, beam divergence 34°



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