

# 630 PDT LASER for PHOTOFRIN<sup>®</sup> (porfimer sodium)



DIOMED

*Portable, affordable and simple to use, the DIOMED 630 PDT for PHOTOFRIN® brings photodynamic therapy within easy reach of every cancer treatment unit...*

The DIOMED 630 PDT is a most versatile and cost effective laser system for photodynamic therapy. Truly portable and operating from a standard electrical wall socket, the laser can be taken with ease from one location to the next. Treatment can be delivered directly to the patient, whether in the operating room or doctor's office.

Using semiconductor diodes as the laser source, the DIOMED 630 PDT emits laser light at 630nm for use in conjunction with PHOTOFRIN for treatment of specific cancers. The laser energy is delivered by the OPTIGUIDE\* fiber optic delivery system, compatible with the majority of endoscopic instrumentation.

Low cost of ownership is guaranteed as the DIOMED 630 PDT is highly reliable and requires minimal routine maintenance or servicing. Continuous and unhindered operation is ensured with no dye cartridges to change or laser optics to align.

*Designed  
with ease  
of use  
in mind*

**The DIOMED 630 PDT incorporates operator friendly features:**

- **Quick to set up**
- **Control of laser energy delivery** by handswitch or footswitch
- **An internal power meter** for calibration of optical fibers, enabling accurate dosing of the patient
- **Automatic selection of laser energy dosimetry** - using the 'touch-screen' menu, the operator simply identifies the treatment area and fiber length to be used and the software calculates the laser power and duration required for each treatment
- **Option to set custom treatment parameters** in joules of energy delivered or time elapsed
- **Laser software** records the power and energy delivered during each treatment session

■ **630 PDT LASER - MODEL T2USA**

The DIOMED 630 PDT is the only diode laser available for photodynamic therapy (PDT) in conjunction with PHOTOFRIN, (porfimer sodium). It provides up to 2000mW of 630nm continuous wave laser radiation to the tip of a flexible delivery fiber optic. The DIOMED 630 PDT incorporates an internal calibration sphere to measure power output at the fiber optic tip.

## — S P E C I F I C A T I O N S —



<b>Laser Type</b>	InGaAlP Laser Diode, CW
<b>Wavelength</b>	630nm ± 3 nm
<b>Delivery fiber</b>	OPTIGUIDE* fiber optic delivery system
<b>Delivery fiber Connector</b>	Standard SMA 905
<b>Numerical Aperture</b>	0.37 Numerical Aperture (NA) at Input to delivery fiber SMA connector
<b>Power</b>	2000mW maximum calibrated power output to fiber tip
<b>Aiming Beam</b>	≤ 5mW at delivery fiber tip. Modes: On/Off/Flash
<b>Cooling</b>	Forced air
<b>Power Supply</b>	115 VAC ±10% , 60 Hz < 10A, single phase
<b>Dimensions</b>	485 mm (h) x 220 mm (w) x 405 mm (d) nominal - not including cuvette (19" x 8.5" x 16" nominal)
<b>Weight</b>	19.5kg (43lbs) nominal
<b>Safety Standards</b>	21 CFR 1040.10, 1040.11

## — A C C E S S O R I E S S P E C I F I C A T I O N S —



**DCYL 2 SERIES**

### ■ OPTIGUIDE™ FIBERS

The OPTIGUIDE DCYL 200 series optical diffuser fiber is a light delivery system consisting of a 400µm core silica optical fiber, a proximal SMA-type connector and a distal light diffusing tip. It is designed to distribute light energy uniformly over the specified length of the diffuser tip.

*NB. Only OPTIGUIDE labeled fibers are intended for use with the DIOMED 630 PDT Laser*

ORDER Ref	Diffuser Length	Diffuser Tip Outer Diameter	Diffuser Type	Rated power output
DCYL 210	10mm	1.65mm	Cylindrical	400mW
DCYL 215	15mm	1.65mm	Cylindrical	600mW
DCYL 220	20mm	1.65mm	Cylindrical	800mW
DCYL 225	25mm	1.65mm	Cylindrical	1000mW
DCYL 250	50mm	1.65mm	Cylindrical	2000mW

### ■ CALIBRATION CUVETTE

#### Fixed outer cuvette

Forms an integral part of calibration sphere and prevents ingress of dirt and fluids.

**128mm - frosted Order Ref: PP/608**

#### Removable inner cuvette

Inserts into the fixed Outer Cuvette to provide a sterile holder for the fiber during calibration. The inner cuvette is autoclavable and suitable for a limited number (10) of sterilization cycles. **172mm - clear Order Ref: PP/607**

**PP/608**

**PP/607**



**SE/630**

### ■ SAFETY EYEWEAR

Lightweight protective eyewear with a minimum L4 rating, covering the range of 630 ± 3nm for use with the DIOMED 630 PDT. **Order Ref: SE/630**

