SpotCure-P

• UVA Adhesive Spot Curing Device

The **SpotCure-P** is a unique LED UV adhesive curing light system designed to be conveniently portable for use in various industrial applications. The system is a completely self contained device incorporating a battery module, recharging electronics, 8mm UVA transparent light guide and a USB to micro-B charging cable. Construction utilizes a chemically resistant plastic body and glass light guide that is completely sealed to permit chemical cleaning without concern.

Operational Description

The **SpotCure-P** device employs a single chip, high intensity UVA light emitting diode (LED) operating at a wavelength of 365nm to produce the light intensity necessary for polymerization initiation. Since effective light curing technique requires as much output as practically possible, the light guide is made from optical quality F2 glass which has over 90% transmission at 365nm. In addition, a unique aluminum reflector / heat sink efficiently shapes the internal light beam.

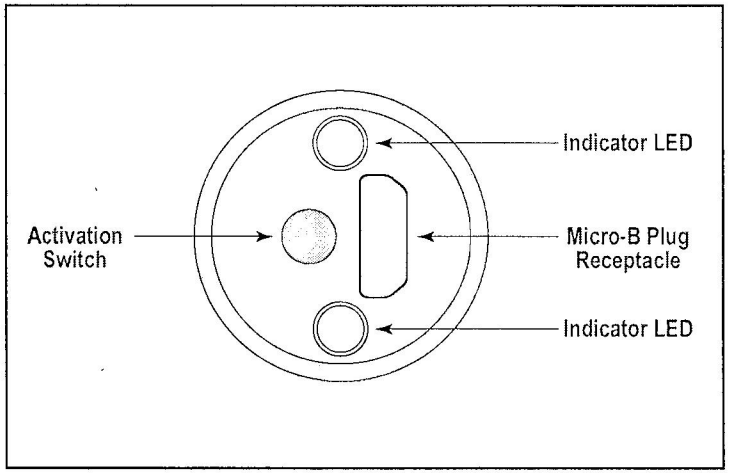
The power module consists of a single lithium ion cell that powers the LED emitter. Sophisticated electronics, including a micro-controller (MCU), closely monitors the battery and LED emitter condition for safety and performance characteristics. Also included in the electronics is a module that controls the rate of charging to insure the longest possible battery life.

The probe and light guide assembly is sealed on the charging end with a polyurethane rubber button cap. This cap is used to activate the light and also is translucent to permit a low battery warning signal to be displayed when battery charging is required. To prevent unnecessary battery depletion, watchdog electronics are incorporated that place the unit in sleep mode when not in use.

SpotCure-P Operation

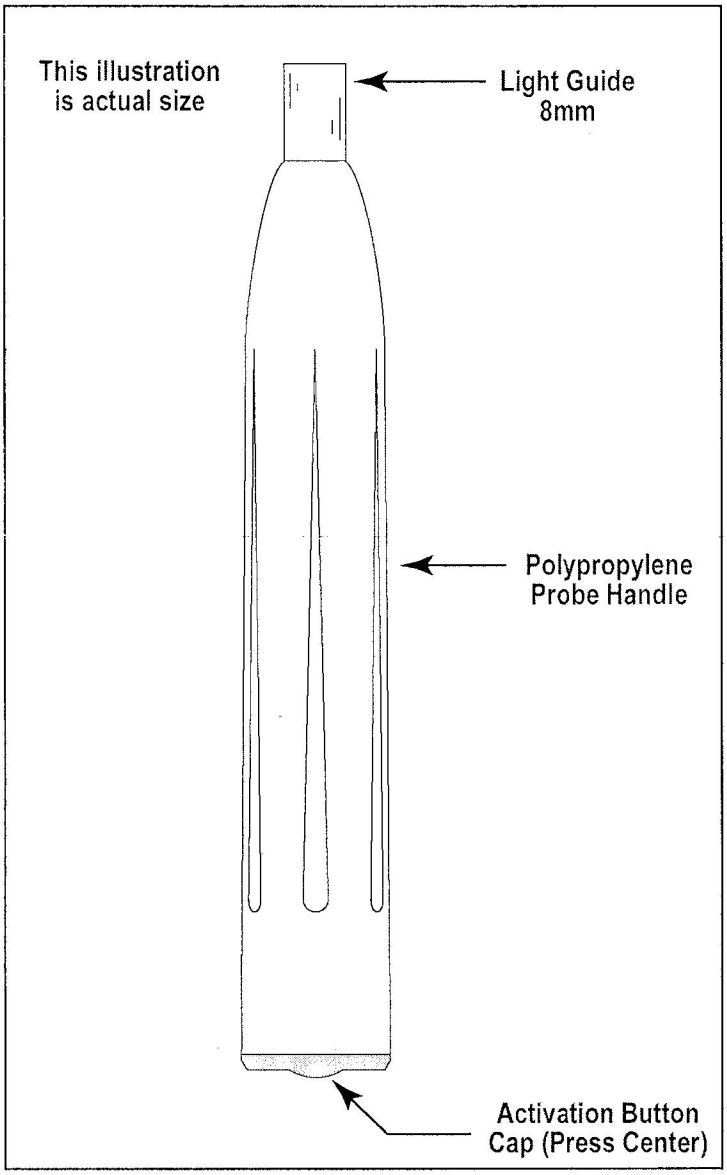
Before initial use, charge the battery module. To do so, remove the rubber button cap at the end of the probe handle. Underneath the cap is a micro-B connection receptacle. Plug the adaptor cable provided into the receptacle being careful to properly orient the micro-B plug. The other end of the cable can be connected to any computer USB port. Alternately, the cable can be plugged into the USB wall adaptor which is an optional accessory. If connection to a USB port or wall adaptor is successful, the two indicator LEDs will go on continuously showing that power is being received from the computer or wall adaptor.

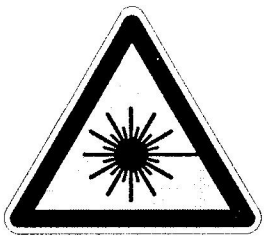
When the battery requires recharging during normal use, the indicator LEDs below the rubber button cap will begin blinking. This will **ONLY** happen when the device is being used. It is not imperative that recharging be accomplished immediately. Generally, adequate battery energy will remain for continued operation. However, as the battery discharges further, the LED intensity reduces and may reach a point where the curing application is compromised.



Normally, a full battery charge only takes several hours and there is no indication when the charging is finished. It is completely safe to leave the device on charge for extended periods of time. The electronics continuously monitors the battery voltage and automatically terminates the charge cycle when the battery is fully charged. If attached to a computer USB port, the computer may prematurely abort the charge cycle during a sleep mode. It is recommended to check the computer operation to avoid a shortened charging cycle.

The **SpotCure-P** logic sequencing is completely automatic and will commence as soon as the activation switch is depressed. The activation switch is located underneath the rubber button cap plug on the rear of the probe handle. Simply depress the center of the cap where the button is located. When the activation switch is depressed, the device will illuminate for a period of 60 seconds and then automatically deactivate. This cycle may be terminated at any time by depressing the activation switch again.





⚠ CAUTION

- The UV LED during operation radiates intense UV light.
- Do not look directly into the UV light during operation of device. This can be harmful to the eyes even for brief periods due to the intense UV light.
- If viewing the UV light is necessary, please use UV filtered glasses to avoid damage by the UV light.
- If the UV LED in this product may be viewed directly, please affix a caution label to that effect.

Avoid direct eye exposure to UV light.
Keep out of reach of children