SpotCure-P

- **L.E.D. UV Adhesive Curing Light**
- **6000ºK White Light Illuminator**

The SpotCure-P is a combination UV adhesive curing light and white light inspection system designed to be conveniently portable for use in various industrial applications. The system consists of a wall transformer for battery recharging, a power console to provide regulated operating voltages for the curing light and illuminator, an 8mm turbo fiber optic probe for adhesive curing and a 4mm fiber optic probe for white light illumination.

Operational Description

The SpotCure-P system employs two hand-held probes which attach to a single cable from the unit enclosure. The white probe is used for general inspection illumination. This probe emits white light. The black probe is used for curing UV light cured adhesives. This probe emits high intensity UV light in the 400nm range to provide the necessary energy for initiating UV light cured materials of acrylic or epoxy chemicals.

Each of the probes operate in a different manner in order to be consistent with their intended use. The probes are stored on top of the control console in two distinct placement positions. These cradles not only provide a convenient storage location but are also an integral part of the system logic. Underneath each cradle position is an optical sensor that determines which probe has been picked up for usage. The electronics then confirms which probe is being employed and initiates the proper logic sequencing. Therefore, it is important that the probes be placed back in their designated respective cradles after use as shown below. To assist in remembering where the probes should be placed, the console label is white and violet. The "Spot" is white and the "Cure" is violet indicating the correct side for each probe storage.

Both the UV curing probe and the inspection illuminator are powered by a series of high capacity rechargeable batteries. The console type design of SpotCure-P permits the use of substantially larger cells than can be used in self-contained cordless devices. This much higher capacity provides long operational periods before battery recharging is required.

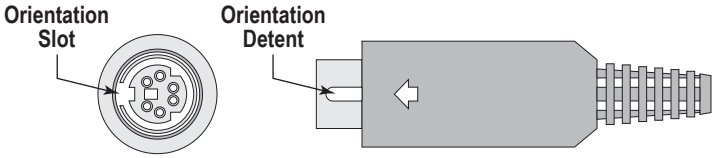
When the batteries require recharging, a red indicator warning light will begin blinking at such time as the battery voltage drops below an initial decrease level. It is not imperative that recharging be accomplished immediately. There is still adequate battery energy for continued operation. However, when the indicator stops blinking or remains on constantly, it is recommended that no further adhesive curing be done until the batteries have been fully recharged.

Chemical Exposure Caution

The curing probe and illuminator probe assemblies consist of a probe handle and light guide that can be seperated for cleaning. Pull the light guide straight out of the handle. The handle is **NOT** chemically resistant and should **NOT** be exposed to harsh cleaning agents or any type of solvents. When replacing the light guides, insure that they are fully inserted into the handle.

SpotCure-P Operation

Both probes are connected to the console cable using a 6-pin DIN connector. It is important that the cable connector and receptcale be properly oriented to avoid permanent damage to the connectors. Refer to the following diagram.



Before using the system, it is recommended that the battery pack be fully charged. Connect the wall transformer provided to an outlet of appropriate voltage (check the rating plate). Plug the wall transformer cable into the small round jack in the back of the console. Insure that both probes are stored in the console cradles and leave the batteries on charge for at least 24 hours. If desired, the SpotCure-P may be left connected to the wall transformer for extended periods of time with no adverse effects.

The SpotCure-P logic sequencing is completely automatic and will commence as soon as a probe is removed from the storage cradle. If the selected handpiece probe is not connected to the console with the connection cable, then automatic sequencing will begin as soon as the cable is connected.

When the UV curing probe is removed from its cradle on the console, an automatic sequence commences with a 3 second initial delay before curing light energizes. Then, an audible beep at the end of each 10 second ON time that will repeat itself indefinitely until the probe is returned to its cradle position.

When the inspection probe is removed from its cradle on the console, an automatic sequence commences with a 3 second initial delay before illuminator light energizes. Then, the illuminator probe will remain ON indefinitely until the handpiece is returned to its cradle position on the console.

⚠ 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