SPER SCIENTIFIC LTD.

*YOUR SOURCE FOR LABORATORY EQUIPMENT*



## ULTRASONIC CLEANERS 100004 & 100005

Ultrasonic Cleaners are designed to remove grease, dust or other contaminants from surfaces and cavities of small objects, parts and samples such as cuvettes, lenses, glassware, stainless steel instruments, metals and more. Simply place objects directly into the stainless steel tank or into a dipping basket, replace the transparent lid and press "on". The transducer generates thousands of minute cleansing bubbles which vibrate at a very high electrical frequency. When the vibration speed rises above the ultrasonic frequency level, bubbles explode and generate strong power, cleaning the surfaces and cavities of hard-to-clean objects. Ultrasonic cleaning does not scratch the surface or harm objects like many chemical or abrasive cleansers. Units operate quietly, powered by AC 100/120V. High Power Ultrasonic Cleaner 100004 includes a dipping basket and features 5 pre-programmed timing cycles with the remaining count-down time shown on a large bright LED. A cooling fan enables prolonged operation without overheating.

CE

| Specifications | High Powered 100004 | Mini 100005 |
|---|---|---|
| Dimensions | 8½"H x 7"W x 5½"D (216 x 178 x 140 mm) | 5"H x 8"W x 4½"D (127 x 203 x 117 mm) |
| Tank Dimensions | 7"H x 5½"W x 2"D (180 x 145 x 55 mm) | 2½"H x 6½"W x 3½"D (64 x 165 x 89 mm) |
| Tank Capacity | 1 qt (1,000 ml) | ½ qt (600 ml) |
| Weight | 3.8 lbs (1.75 kg) | 2 lbs (1 kg) |
| Output Power | 60 Watts | 35 Watts |
| Timer | 5 pre-programmed cycles | 3 Minutes |



EASTERN ENERGY

www.eastern-energy.net

Email: info@ete.co.th

# UV LIGHT APPLICATIONS

**Food Industry:**
It is necessary to identify rodent presence in all areas of the food industry. Although rodent urine and hair may be invisible in normal light they fluoresce under UV light.

**HVAC and Automobile service:**
By adding UV powder or liquid to a system, leaks can be identified under UV light.

**Criminology:**
Check crime scenes for fingerprints (using fluorescing dusting powder) and for some bodily fluids. Locate the presence of accelerants in arson investigations.

**Geology & Gemology:**
Reveals fluorescent activity in minerals and gems. Jewelers, for example, use UV light to differentiate YAG from tanzanite or synthetic corundum.

**Medical:**
Locates dermatological bacteria that glow under UV light. Used in conjunction with an indicator fluid in eyes to check for foreign objects and as a skin treatment for psoriasis, Lichen Planus, eczema, dandruff and seborrheic dermatitis under a doctor's supervision.

**Pest Control:**
Identifies the presence of rodents, scorpions, lice and other insects.

**Manufacturing:**
Used to cure many special epoxies and glues.

**Customs:**
Some passports have images visible only under UV light. Document and forgery analysis**:** Alterations or changes will sometimes become directly visible when illuminated by UV light.

**Access control:**
Often access to events is controlled using an invisible mark on a hand or card that fluoresces under UV light.

**Currency and stamp verification:**
U.S. and many other currencies and stamps contain images visible only under UV light.

**Painting and carpet repair and verification:**
Many modern inks, paints and dyes may look identical to old colorings under visible light. However, under UV, differences can be seen because the chemical composition of newer substances usually includes synthetic materials.

EASTERN ENERGY
www.eastern-energy.net
Email: info@ete.co.th