
TECHNICAL INFORMATION

ElectroFume™ Iodine Fumer Catalog No. FUM250

INTRODUCTION

The FUM250 Iodine Fumer Kit has a dual purpose. It saves your breath when fuming with iodine and provides a quick, efficient means of developing latent prints on porous surfaces such as paper, cardboard, raw wood, etc. The FUM250 contains a high volume, battery-operated air pump with batteries and comes complete with a supply of Fumette Disposable Iodine Fuming Guns and Iodine Print Enhancers. All of which are contained in a rugged ABS carrying case with a pre-cut foam insert.



PRECAUTIONS

- Before using this kit, consult the appropriate Material Safety Data Sheets (MSDS) found on our website at www.sirchie.com/support.

- When breaking the glass ampoules, apply pressure in the middle of the ampoule and not at the ends. The ampoule ends have thicker glass that may penetrate the wall of the tube.
- USE WITH ADEQUATE VENTILATION ONLY! The user should wear protective gloves and appropriate respiratory and eye protection.

PROCEDURE

Prior to following these steps, set up a camera and lighting in a position that will adequately cover the object to be fumed.

1. Install batteries observing polarity (Fig. 1). Always use alkaline batteries.
2. The ampoule containing iodine crystals will be visible inside the fumette. Grasp the fumette in the palm of your hand, and cover the area where the crystals are located for at least one minute. Body heat will accelerate sublimation of the crystals.
3. Connect it to the exhaust (long tube) on the unit (Fig. 2).
4. Using thumb and forefinger crush the glass ampoule inside the tube (Fig. 3).
5. Next, open the cap on the end of the Fumette.



With the DF201 Fumette engaged, the suspect document is easily fumed with the ElectroFume™ Iodine Fumer to reveal latent fingerprints.



FIGURE 1



FIGURE 2



FIGURE 3

6. Turn the ElectroFume™ on and hold it close to the object to be fumed. Work your way side-to-side and up-and-down in order to cover the entire surface. Latent prints, if present, will appear in just a few seconds.
7. Iodine prints are “fugitive”, meaning that they will disappear in a very short period of time. Take overall and close-up photos of any latents that develop.
8. As a safeguard, and to preserve the latents developed, apply Iodine Print Enhancer (included) according to the following procedure:
 - A. Remove an Iodine Print Enhancer from its protective tube. Remove the end cap and be certain that the cotton tip protrudes slightly above the plastic. If it does not, gently squeeze the tube below the cotton to force it outward.
 - B. Position the sliding cardboard tube over the bottom ampoule, and using thumb and forefinger, crush this ampoule.
 - C. Position the sliding cardboard tube over the remaining ampoule, and using thumb and forefinger, crush it.
 - D. Shake the tube vigorously for up to one minute to ensure the chemicals are well mixed.
 - E. Apply the liquid sparingly to the developed prints.

Special Note:

1. *If developed latent prints have begun to fade, refume the surface. After refuming, wait approximately one minute for excess fumes to dissipate before adding Enhancer.*
2. *Iodine fuming should be the first step in attempting to recover latent prints on porous surfaces. It is a non-destructive method and may be followed up with treatment by DFO, Ninhydrin and Physical Developer.*



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CONTENTS:

- 1- FUM250
ElectroFume™
Iodine Fumer
- 2- D-Cell Alkaline
Batteries
- 8- DF201
Fumette
disposable
Iodine Fuming
Guns
- 8- DCA1
Iodine Print
Enhancers
- 1- FUM250CC
Black Molded
Copolymer
Carrying
Case,
Textured;
Dimensions:
9.5" x 6.5"
x 3.5"
(24.1cm x
16.5cm x
8.9cm);
Weight:
2.03 lbs.
(921g)