
TECHNICAL INFORMATION

Mini BLUEMAXX™ II Kit Catalog Nos. BM200A, BMK200A

BLUEMAXX™ SYSTEMS OVERVIEW

BLUEMAXX™ systems are illumination sources useful for performing fluorescent examinations on materials of forensic interest having excitation bands between 400 and 500 nanometers (nm). These alternative light sources can be used to detect physiological fluids (semen, urine), as well as to enhance fluorescent fingerprint powders and enhancement stains. They are an effective tool for searches on the crime scene, as well as useful in the forensic lab.

CAUTION

- DO NOT stare directly into the light beam as this may cause serious injury to the eyes.

INTRODUCTION

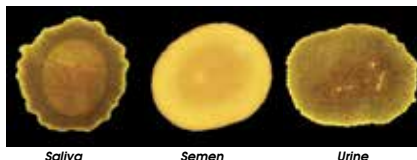
The Mini BLUEMAXX™ light source provides a high intensity light beam from a single, one watt Light Emitting Diode (LED). The LED is rated at more than 50,000 hours of lamp life. The three-AAA batteries provide up to 5-hours of



continuous light and up to 8-hours of intermittent duty. Due to the light's intensity, however, certain applications may require a less intense, softer light. For this purpose, we have provided a diffuser that easily slips on and off the unit.

The hand-held, machined-aluminum, self-contained light source measures 5.31" (13.5cm) in length with a barrel of only 1.06" (2.7cm) dia. and weighs a mere 5.45 oz. (154.5g). Three AAA alkaline batteries provide up to 3 hours of continuous use.

The blue light provided by the Mini BLUEMAXX™ light source will cause fluorescence in many items encountered at a crime scene, items such as semen, urine, saliva, certain narcotics and drugs and fluorescent powders and chemicals. Due to the overpowering effect of the light source, any available fluorescence will not be seen unless a barrier filter is used to allow only the fluorescence to pass through while blocking the reflected blue beam. The Mini BLUEMAXX™ is provided with a pair of orange barrier-filter goggles and an orange barrier filter that may be attached to the body of the light source. To maximize the effectiveness of the BLUEMAXX™, evidence should be examined in low light or dark areas to eliminate the influence of other light sources.



INITIAL SETUP

Prior to using the kit for the first time, it will be necessary to install the batteries in the light source. Three (3) AAA Alkaline batteries are supplied. To install these batteries, follow the instructions below.

Battery Installation

1. Unscrew the end-cap from the light source and remove the plastic battery holder (shown to the right).

Install the three (3) AAA batteries observing the polarity markings on the battery holder.



2. Re-install the battery holder into the barrel and replace the end-cap.

USAGE

To conduct a general search of the area, you must use the orange barrier goggles or the attachable orange barrier filter. To use the filter, simply slide the filter opening over the head of the flashlight. The rubber grommet will hold the filter shield in place.

PHOTOGRAPHY

Evidence photos may be taken using a standard 35mm or digital camera. The camera lens must be equipped with a barrier filter, which may be ordered from the factory, or photos may be taken through the light-mounted barrier filter. Lengthy exposures may be necessary, therefore we recommend that the camera be mounted on a sturdy tripod. When using film (ASA400), begin with a trial exposure of f/5.6 at 1/2 second and bracket exposures on either side of this value. If the camera is equipped with a full automatic mode (film or digital camera), use this mode for best results as shown to the right.

USE OF LIGHT DIFFUSER

The light diffuser (shown to the right) is provided for close-up viewing and photography. The diffuser eliminates any hot spots from the normal beam of light. Simply slide the diffuser over the lamp head. The friction fit will hold it in place.



Light Diffuser



BMK200A CONTENTS:

- 1- BM200A Mini BLUEMAXX™ Light
- 1- BMS200A Barrier Filter
- 1- BMS300 Barrier Filter Goggles w/case

- 1- SFL11777 Light Diffuser
- 3- AAA Alkaline Batteries
- 1- BMK200ACC Black Copolymer Carrying Case w/molded foam inserts; Dimensions: 8.5" x 5.5" x 3.1875" (21.6cm x 14cm x 8.1cm); Weight: 1.58 lbs. (.7kg)

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