



TECHNICAL INFORMATION

BLUEMAXX™ Digital Latent Evidence Photo System

Catalog No. BML100

INTRODUCTION

The BLUEMAXX™ Digital Latent Video System contains everything you need to utilize the BLUEMAXX™ system for taking evidence photos. At the core is a 12.8 MP Digital Camera with SD card storage, manual mode, and macro mode for close-up shots. It includes a BLUEMAXX™ light, orange filter, and orange goggles, to enable you to photograph and view using the system. Also included are brushes, fluorescent powder, and lifters, so the system can be used to search for prints on those colored and background surfaces where conventional powders would not work..

DIGITAL PHOTOGRAPHY

Digital photography has become the method of choice for crime scene

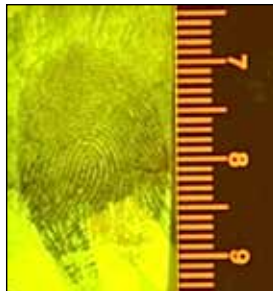


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A technician (left) uses the BLUEMAXX™ BM300 forensic light source to illuminate a CD cover while dusting for prints with No. LL703 GREENESCENT™ Fluorescent Latent Print Powder. The digital camera and a MR30FO Fluorescent Scale (included in the BML100 kit) are used to produce the evidential photograph. Resultant latent print is shown right.



photographers. So, we've combined this vital recovery method with our BLUEMAXX™ system and fluorescent latent fingerprint powders. By employing a high-resolution digital camera (12.8-megapix-

els), evidence photos are sharp, crisp and clear.

BML100 ADVANTAGES

- 12.8-megapixel for high resolution images
- System permits quick, efficient downloads
- All-in-one development and recording of latent print evidence using fluorescent/ALS technology

PRECAUTIONS

- Consult the appropriate Safety Data Sheets (SDS) found on our website at www.sirchie.com/support.
- Be certain that the camera battery has received a full charge prior to use at a crime scene.

INITIAL SETUP

Camera Software

The camera software is contained on a CD-ROM that is packaged with the camera manual. Install the software in your computer per the instruction sheet that accompanies the CD-ROM. **NOTE:** *Read through the camera manual to familiarize yourself with various functions and capabilities.*

You will need a graphics program in order to work on and then save your photographs. Programs such as Adobe® Photoshop or Ulead® PhotoImpact are among those used by many law enforcement agencies.

For specific instructions covering camera operation, consult the camera's users manual.

Camera Setup for BLUEMAXX™ Photography

Your camera may be hand-held or mounted to a standard photography tripod.

Camera Operation:

1. The camera is shipped with a 58mm Adapter Ring pre-mounted on it. For most functions, it may be left installed on the camera. **NOTE:** *The Adapter Ring is required to be able to mount the CNF58 Orange filter (or other 58mm optical filter) to the lens.*
2. Under most circumstances it is best to take a series of at least three photos of the evidence prior to taking photos with the BLUEMAXX™ Light Source. The following series of photos are taken under normal light or with electronic flash:
 - a. Take an overall photo (wide angle).
 - b. Next, take a medium close-up photo.
 - c. The last photo is a close-up. For best results turn on the Macro mode of the camera. Be certain that

the image fills the screen and that the scale is visible and legible.

NOTE: Photography with the BLUEMAXX™ Light Source may require that brightly lighted areas be



Wide-Angle



Medium Close-up



Close-up

darkened somewhat. Turn off lights and close blinds or shades. When using the BM300 BLUEMAXX™ Forensic Light Source, mount the CFN58 Orange Filter onto the camera's Adapter Ring. Mount the camera on the tripod, and follow steps below.

NOTE: BLUEMAXX™ photography requires lengthy exposures and if the camera is hand-held, camera shake will cause blurred photos. It is strongly recommended to mount the camera on a tripod.

Starting Point for BLUEMAXX™ Exposures

With the digital camera in the (M) Manual mode and the Macro mode selected, set the aperture to f/8 and the shutter to 1 sec. If exposures are too dark, decrease the shutter speed (i.e., 2 sec.). If exposures are too light, increase the shutter speed (i.e., 1/10 sec.). If greater depth of field is needed, set a smaller aperture (i.e., f/12) and decrease the shutter speed.

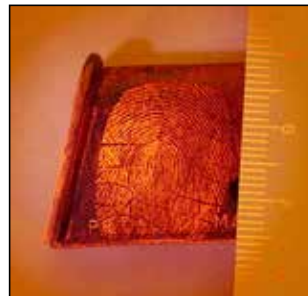
- For use with a tripod, mount the camera onto the tripod's camera shoe screw stud.
- Mount the shoe into the tripod receptacle & latch it in place.

- c. Place the camera/tripod assembly in position over the evidence.
- d. Darken the area and turn the camera ON.
- b. Set the camera to Manual (M) mode and Macro mode.
- d. Zoom in or out to fill the camera screen with the image.
- e. Be certain to place a fluorescent scale in the shot so that it is visible.
- e. DO NOT use Digital Zoom as this causes degrading (pixelation) of the image.
- f. Illuminate the object with the BLUEMAXX™ BM300 and keep the beam moving during the exposure to ensure even lighting.
- g. Press and release the shutter button.
- h. You may have to experiment with varying exposure times and aperture settings to get the best image.
- i. Preview each photo taken to be certain that good results were obtained.

The series of photographs that follow are of latent prints developed with the fluorescent latent print powder and exposed with the BM300 BLUEMAXX™ Light, all included with the BML100 kit.



Pistol Magazine (above) dusted with LL704. Inset (below) photographed with BLUEMAXX™ illumination.





Pen box (above) dusted with LL703. Inset (top right) photographed with BLUEMAXX™ illumination.



ZIP Disk Case (above) dusted with LL701. Inset (left) photographed with BLUEMAXX™ illumination.

Camera Setup for Available Light or Flash Photography

Use the same setup for BLUEMAXX™ photography as described above. If sufficient light is not available, however, illuminate the print with a flashlight or use an electronic flash. Press and release the shutter button, and preview each photo to be certain that good results were obtained. You may have to experiment with varying exposure times and aperture settings to get the best image.

BML100 CONTENTS:

1- 7660APL0047	Digital camera with Manual Mode, SD storage
1- 7725OPT0131	Conversion Lens Adapter 58mm Coupler Assembly
1- CFN58	Orange Filter, 58mm
1- 7770OFF0017	SD Flash Memory Card, 32GB
1- 7640WIR0197	USB Connection Cable
3- 7690BAT0011	Battery D-Cell Alkaline
1- BM300	BLUEMAXX™ Forensic Light Source
1- BMS300	BLUEMAXX™ Barrier Goggles w/Case
1- LL701	REDESCENT™ Latent Print Powder, 2 oz. (59ml)
1- LL703	GREENESCENT™ Latent Print Powder, 2 oz. (59ml)
1- LL704	Silver/REDESCENT™ Latent Print Powder, 2 oz. (59ml)
3- 122L1	Fiberglass Brush, Kit Type
1- 131LB	Black Hinge Lifters, 2" x 4" (5.1cm x 10.2cm), 12 ea.
1- 131LW	White Hinge Lifters, 2" x 4" (5.1cm x 10.2cm), 12 ea.
1- MR30FO	Fluorescent Scales, Orange, 6" (15.2cm), 10-pack
1- 7450CAS0021	Rugged Black Plastic Copolymer Carrying Case w/Custom Foam Insert Dimensions: 21" x 17" x 10.5" (53.3cm x 43.2cm x 26.7cm); Weight: 15.94 lbs. (7.2kg)
1- Technical Information brochure	

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