

TECHNICAL INFORMATION

Universal Evidence Photo Stand

Catalog Nos. UPS100, UPS100M

INTRODUCTION

A proper and effective means of recording physical evidence at the crime scene is often a challenge. It is vitally important to record fragile evidence such as footprints and tire tracks before they are inadvertently damaged or destroyed by the weather or by officers working at the crime scene.

The Universal Evidence Photo Stand was developed primarily for the recovery of impression evidence, but it may serve to assist in recording many other forms of physical evidence as well. The unit assembles and disassembles in seconds and is ideal for use at the crime scene or in the

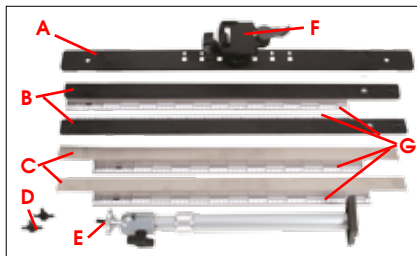


FIGURE 1—PARTS LIST:

- | | |
|----------------------------------|--|
| 1- (A) Main Frame Support | 1- (E) Adjustable Extension Arm |
| 2- (B) Side Supports | 1- (F) Tripod-type Extension Arm Mount |
| 2- (C) Adjustable Scale Supports | 1- (G) 4 White Magnetic Scales |
| 2- (D) Thumbscrews | |

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crime laboratory. The UPS100 will support cameras weighing up to 2.5 lbs.

Upon receipt of the unit, carefully inspect the shipment for completeness (Fig. 1) and any transit damage. Report any damage to the delivering carrier and notify the Customer Service Office at the factory. The UPS100 is supplied with one (1) set of White English Magnetic Scales (No. UPS101W) and the UPS100M model comes with No. UPS102W White Metric Magnetic Scales. Optional black versions of these scales are also available.

ASSEMBLY

To avoid any possible damage to the impression being photographed, assemble the unit some distance away prior to placement.

PROCEDURE

Special Note: some cameras have a tripod mounting that is not directly in line with the lens. Additional mounting holes have been provided that permit repositioning the tripod extension arm mount on the main frame. Remove the screw securing the mount and reposition it as required.

1. Attach the two Side Supports (B) to the Main Frame Support (A) using the Thumbscrews (D). Do not over-tighten. *Note that the Main Frame Support is notched where the Side Supports are attached (Fig. 2).*
2. Attach the camera to be used to the threaded $\frac{1}{4}$ -20 screw on top of the Adjustable Extension Arm (E). Use the threaded lock nut to secure the position of the camera.
3. Place the base of the extension arm in the tripod-type mount, snap it into place and lock it in position (Fig. 3).



FIGURE 2



FIGURE 3

4. Place the assembled unit over the impression to be recorded as shown in Fig. 4.
5. Extend the Extension arm to a point where the camera lens is directly over the center of the evidence. Lock the extension arm in place using the thumbscrew at the base swivel and the knurled locking collar (Fig. 5).
6. Position the camera so that the lens is at a 90° angle above the evidence.
7. Position the Adjustable Scale Supports as needed. *Note: When using a flash, use one adjustable scale on the side opposite the flash in order to avoid introducing a shadow from the scale.*
8. Adjust the zoom on the camera so that at least two of the photo scales are visible. Where possible, avoid using too much of the wide-angle lens setting as this will cause perspective distortion.



FIGURE 4



FIGURE 5

FLASH PHOTOGRAPHY

In most instances, it will be necessary to use an electronic flash when recording three-dimensional evidence such as footprints and tire tracks. A flash provides more control over the lighting and will create the necessary shadow detail. A minimum of three photos should be taken with the flash held at

different positions as shown in Fig. 6. This will assure sufficient shadow detail in the impression (see Figures 7A-7C). When photographing two-dimensional evidence such as dust prints, one or two photos may be adequate. The flash should be held three to four feet from the impression and at an angle of 15° to 30° above the surface—depending upon the depth of the impression.

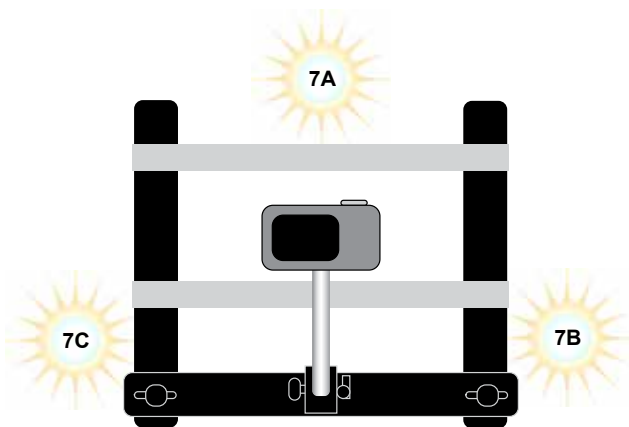


FIGURE 6



FIGURE 7A



FIGURE 7B



FIGURE 7C