

**Section L - Subsection 1**

**Total Camera III (TC III)**

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**Name of Procedure:**

Total Camera III (TC III)

**Suggested Uses:**

The TC III is used to preserve latent impressions. This will allow the analyst to photograph, maintain and utilize these recorded impressions in examinations and comparisons to known standards. This camera will also assist in the dissemination of developed impressions to the appropriate agencies in a permanent manner.

**Equipment Needed to Perform Procedures:**

A - Total Camera III

B - Appropriate Photographic Paper/Film

**Chemicals Needed For Preparation of Chemical Solution(s):**

Not Applicable

**Formula/Directions for Preparation of Chemical Solution(s):**

Not Applicable

**Processing Procedures for Application to Item(s) of Evidence:**

**Standard Photography:**

1. The item which contains a developed latent impressions should be placed in the center of the copy board with the glass cover closed to hold the item in the appropriate place. The copy board should be turned to face the camera lens in the upright position.
2. The camera is set to a ratio of 1:1 and normally the aperture will remain on F 22. The aperture should be checked to ensure it is on the appropriate setting.
3. When photographing an item of evidence various exposure times, apertures, papers and films may be utilized to properly record the developed images. If the initial photographs do not correctly record the developed impressions the exposure time and aperture setting may have to be adjusted.
  - a. Positive paper and film:

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If photograph is too dark - Increase the exposure time and/or decrease the aperture.

If photograph is too light - Decrease the exposure time and/or increase the aperture.

b. Negative paper and film:

If photograph is too dark - Decrease the exposure time and/or increase the aperture.

If photograph is too light - Increase the exposure time and/or decrease the aperture.

4. Inside the TC III, there is a formatted glass screen which has placement indicators for various sizes of paper and film. The alignment of the evidence must be correct to record the necessary images. There is a paper and film storage area (paper safe) directly inside the camera which should remain closed unless retrieval or additional supplies of paper and film are needed. Once the appropriate paper or film is retrieved, place it on the glass screen noting the placement indicators and align to the necessary position. The plastic cover sheet near the storage area should be rolled over the paper or film prior to proceeding.
5. Set the necessary exposure time and press the start button. This will activate the camera system and lights for exposure.
6. Once the paper has been exposed, remove the plastic cover sheet and feed the paper or film through the rollers in the upper part of the camera chamber. Ensure the paper or film is feed evenly to avoid overlapping or folding of the paper or film within the development stages.
7. The finished copy will exit the camera through the top and will dry within minutes.

**Photography of Negatives:**

1. Remove the copy board cover sheet and place the negative in the center of the copy board.
2. Set the camera in the back light position with the necessary times and exposure.

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3. Follow the above listed procedures for standard photography.

**Note:** It may be necessary to adjust the f-stop and time setting to correctly photograph the impression.

**Enlargement of Impressions:**

1. Adjust the percentage setting on the camera display to the appropriate enlargement needed.
2. Follow the above listed procedures for standard photography.

**Note:** It may be necessary to adjust the f-stop and time setting to correctly photograph the impression.

**Reversing photographic images:**

1. Photograph the image with negative film using the standard photography procedures.
2. Once the film is completely dry, turn the film over and photograph the film following the Standard Photography procedures.

**Steps to Preserve Developed Impressions:**

Not Applicable

**Safety Concerns:**

Avoid looking directly into the camera lights during photography due to the intensity of the lights.

**Storage and Location of Chemicals and Solutions:**

Paper and film - Original shipping boxes or light sensitive envelopes

**Shelf Life:**

Paper and film - Indefinite

**Other Information:**

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The TCIII camera offers numerous photographic techniques and the owner's manual should be consulted for specialized photography.