#### PAINTING WITH LIGHT INSUFFICIENT LIGHT OR LARGE AREA

Camera Exposure: Bulb "B" Mode JPEG: Large Fine ISO: 400 Aperture: f/8 (for more depth of field – f/11)

Shutter Speed: Shutter open until flash or flashlight sequence is completed Lens Stabilizer: On

Focus: Manual focus (if needed, use a flashlight to focus) Place camera on tripod and attach cable release

Flash: Manual "M" 1/1 (flash will be off camera)

**Technique:** With camera composed, focused, and pointed toward subject area, depress cable release and lock it in "open" position. With flash in hand, quickly walk and manually flash an equal pattern around subject area (outside camera's angle of view). Ensure to flash parallel to the deck toward desired areas to be lit. Return to camera and release the lock on cable release to take photo. **Note:** A flashlight can also be used to paint. The "painting with light" technique, allows you to light and image a large area using a single electronic strobe light, a spotlight, or—in some cases—even a good flashlight. To accomplish this, the photographer moves the light throughout the scene, exposing one part at a time, while the camera lens and shutter remains open the entire time.

#### LUMINOL PHOTOGRAPHY

Camera Exposure: Bulb "B" Mode

JPEG: Large Fine ISO: 1600

**Aperture:** f/8 (for more depth of field use

f/11)

**Shutter Speed:** 15 seconds (if using f/11,

begin at 30 seconds)

Lens Stabilizer: On Lens: Zoom
Focus: Manual focus (if needed, use a flashlight to focus) Place camera on tripod and attach cable release. Flash: no flash
Technique: With the room lights on, take a control photo of the blood-stained area with EV markers in place. With the lights off, take a photo- graph (15 seconds) of the same bloodstained area. Review the captured image for correct exposure and adjust as needed. Take another photo and bounce a flash or flashlight onto the ceiling (allows you to see background).

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### ALTERNATE LIGHT SOURCE PHOTOGRAPHY - SEMINAL FLUID

Camera Exposure: Aperture Value "AV" Mode

JPEG: Large Fine

**ISO:** 400

Aperture: f/11 or f/16

Shutter Speed: Camera will automatically select

Lens Stabilizer: On

Lens: Zoom

Focus: Automatic or manual focus

Flash: no flash

**Technique:** Place camera on tripod and attach cable release. Remove lens shade. Place an orange barrier filter (or alternative) in front of lens, without touching the lens to the filter. Low ambient light is preferred. Depending on the ALS intensity, the exposure may be from one to several seconds. Make several exposures, making sure that the focus remains

sharp.

### **AERIAL PHOTOGRAPHY**

Camera Exposure: Time Value "TV" Mode

**JPEG:** Large Fine

**ISO:** 400 (use higher ISO 800 or higher if light level is low)

**Aperture:** camera will automatically select

Shutter Speed: 1/500th Lens Stabilizer: Off

**Lens:** Zoom **Focus:** Automatic **Flash:** no flash

Technique: Overall, Midrange, Close-ups

Do not touch camera to aircraft as this will add vibration!

"Digital Camera Quick Reference Guide" produced by: LASD Photo/Digital Unit, 323-260-8570, photo@lasd.org

### **Recommended Settings from The**

# **DIGITAL CAMERA QUICK REFERENCE GUIDE**

Los Angeles County Sheriff's Department Scientific Services Bureau

### **2D SHOE IMPRESSIONS**

Camera Exposure: Manual "M" Mode

**RAW + JPEG RAW Fine** 

**ISO:** 100

**Aperture:** f/16 Shutter Speed: 1/125th Lens

Stabilizer: On

Lens: Zoom 40-70mm (50mm is ideal) Focus: Manual focus (if needed, use a

flashlight to focus)

Place camera on tripod along with sandbag

for stabilization; attach cable

release

Flash: ETTL mode with off-camera flash cord

**Technique:** Ensure camera is parallel and square with impression; utilize an L-scale; flash held at oblique angle on all four sides

about 3-5 feet away

\*If surface is too reflective for flash, turn off

flash and use AV mode at f/16\*

### **3D SHOE / TIRE TRACK IMPRESSIONS**

Camera Exposure: Manual "M" Mode **RAW + JPEG RAW Fine ISO:** 100

Aperture: f/16 Shutter Speed: 1/125th Lens

Lens Stabilizer: On

Lens: Zoom 40-70mm (50mm is ideal) Flash: Manual mode using off-camera flash cord; if flash is too strong, use ETTL

Focus: Manual focus on bottom of impression (if needed, use a flashlight) **Support:** Place camera on tripod along with

sandbag for stabilization; attach cable

release

**Technique:** ensure camera is parallel and square with impression; utilize an L-scale; flash held at ankle, calf, knee heights on all

four sides about 3-5 feet away

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### GENERAL CRIME SCENE PHOTOGRAPHY

Camera Exposure: Manual "M" Mode

JPEG: Large Fine

ISO: 400; use 100 for bright sun **Preferred Aperture:** f/8 to f/16

**Shutter Speed:** As appropriate for meter reading (avoid <1/30

sec hand- held) Lens Stabilizer: On Lens: Zoom 24-105mm

Focus: Automatic or manual focus as appropriate for scene and lighting Flash: ETTL mode (use flash to fill shadows during the

day) Technique: Overall, Midrange and Close-ups

### NIGHT TIME AVAILABLE LIGHT PHOTOGRAPHY

Camera Exposure: Manual "M" Mode

JPEG: Large Fine

**ISO:** 400 (or higher if necessary – ex. 800 to 6400)

**Aperture:** f/8 (use as a starting point)

**Shutter Speed:** 5 seconds (use as a starting point) use tripod

Lens Stabilizer: On Lens: Zoom 24-105mm

Focus: Automatic or manual focus (if needed, use a flashlight to

**Support:** Place camera on tripod and attach cable release Flash: No flash (optional: use fill flash on ETTL mode for nearby shadows or to counteract bright lights facing toward the lens)

Technique: overall and midrange

## **2D LATENT/PATENT IMPRESSIONS**

Camera Exposure: Manual "M" Mode **RAW + JPEG RAW Fine ISO:** 100

Aperture: f/16 Shutter Speed: 1/125th Lens Stabilizer: On

Lens: Macro fixed 50mm

Focus: Manual focus (if needed, use a flashlight to focus)

Place camera on tripod and attach cable release Flash: ETTL mode using off-camera flash cord

**Technique:** Ensure camera is parallel and square with

impression; utilize a sticker scale; flash held at oblique angle on all four sides about 3-5 feet away. If the surface is too reflective

for flash, turn off flash and use AV mode at f/16