

TECHNICAL INFORMATION

Professional *KRIMESITE™* Accessory Kit Catalog No. PKSA100K

*The Professional **KRIMESITE™** Accessory Kit... No Imager System would be complete without this sturdy, innovative Support System to aid in viewing and photographing the crime scene.*



No. PKSA100K Kit and Components



The *KRIMESITE™ Imager* simplifies finding the location of latent print evidence, but every crime scene brings with it different challenges and unique situations. The investigator often finds he doesn't have enough hands to conduct a proper crime scene search or photograph what has been located. The PKSA100K Professional

KRIMESITE™ Accessory Kit provides the solution.

At the heart of the PKSA100K is a sturdy tripod design unlike any other ever offered. It is outfitted with a pistol grip panhead with a unique ball and socket joint (shown to the left) that allows for a multitude of positions when the trigger is depressed (full rotation as well as up and down, left and right). Additional positioning options are afforded by the rotating camera platform—almost a full 360°. Simply release the slide lock, position the platform and move the slide lock back down into the locked position (shown to the right).



The unique ball and socket joint of the panhead mount (shown to the left) allows for a multitude of positions when the trigger is depressed.



Due to the strength of this mounting mechanism, not only can you attach the *KRIMESITE™ Imager*, digital or film camera, but the new UVPI20ST UV Panther 6/12-watt shortwave UV light included in the kit. It's universal adapter permits 110V or 220V AC use.



ASSEMBLY

The only assembly required is to screw each leg into the pistol grip assembly base. To mount the *KRIMESITE™ Imager*, UV Panther Light, or camera, you must first remove the quick release rotating camera platform.

Removing the Camera Platform

1. Push the Slide Lock into the Release position.
2. Rotate the Camera Platform counterclockwise until it stops.
3. Depress and hold the Quick Release Button while turning the Camera Platform counterclockwise to release. Remove platform.



Push Slide Lock upward into the Release position.



Depress and hold Quick Release Button while turning the camera platform counterclockwise to remove.

Mounting the UV Panther Light, Imager or Camera

1. Align the camera platform so that the Positioning Index Mark faces the front of the camera.
2. Align the Camera Mounting Post with the tripod mounting socket of the camera.
3. Tighten the Mounting Wing Nut securely and fold the head of the wing nut down.
4. Align the Positioning Index Mark on the camera platform with the index mark on top of the Pistol Grip Assembly.
5. Turn the Camera Platform clockwise until it engages.
6. Rotate the Camera Platform to the desired position and lock into place by pushing the Slide Lock into the Lock position.



With index marker facing forward, align the platform mounting post to tripod socket of camera.



With the index markers of platform and pistol grip aligned, turn platform clockwise to engage.



Depress and hold the multi-movement trigger to position the UV Panther Light with the pistol grip handle. Release trigger to lock into place.

PROCEDURE

Once you have securely mounted the *KRIMESITE™ Imager*, UV Panther Light or camera on top of the pistol grip assembly, you are now ready to move it into any position desired. Depress the Multi-Movement Trigger with one hand and hold to move the device into the proper position with the pistol grip handle (shown to the left). When it is set, release the Trigger and it will lock it into position.

The flexible legs of this sturdy tripod accommodate even the most irregular surfaces including stair cases. An additional set of leg extensions are included for those occasions where greater height may be required (shown to the right).



Flexible leg extensions can be used to increase the height of the tripod.

USING THE UVP120ST UV PANTHER LIGHT

SPECIAL PRECAUTION: Avoid the use of shortwave UV light (254nm) in the presence of visible bloodstains if subsequent DNA analysis is a consideration. Collect blood samples prior to shortwave UV light exposure.

The included UVP120ST UV Panther 6/12-watt shortwave UV light features a dual power supply: AC Operation—110V/220V AC Power Adapter; DC Operation—16 AA (non-rechargeable) Alkaline Batteries.

AC Operation

For AC operation, connect the supplied universal AC Adapter to the unit through the side panel jack and plug into any convenient 110V or 220V AC outlet accordingly—this disconnects the AA batteries and provides rectified DC voltage to the lamp. Turn the unit ON with the ON/OFF Switches mounted on top of the housing. A green LED (Light Emitting Diode) power indicator will flash intermittently. Be certain to wear proper UV protective eye wear when the light is in use.



Power Select button and side panel jack located on the side of the unit permit 110V/220V AC or DC operation.



Dual ON/OFF switches for 6 or 12-watt operation.

DC Operation

For DC operation, install the sixteen (16) AA Alkaline Batteries provided into the battery magazine located inside the compartment on the back of the unit.

1. Remove the four (4) thumbscrews that secure the protective back panel of the unit.
2. Remove the battery magazine and insert the batteries while observing the correct polarity.



Access the battery pack by removing the four thumbscrews on the back panel of the unit.

- Re-install the magazine into the battery compartment and reattach the metal plate.

Using the ON/OFF Switches mounted on top of the housing, turn the unit ON. A green LED (Light Emitting Diode) power indicator for each lamp will flash intermittently. Be certain to wear proper UV protective eye wear when the light is in use.



Observe the correct polarity of the batteries and re-install the magazine into the battery compartment.

MAINTENANCE

Lamp replacement is the only field maintenance recommended.

NOTE: Wait until the lamps have cooled before proceeding as severe burns may result.

- Use a small Phillips-head screwdriver to remove the top and bottom set screws that hold the metal face shield in place.
- Squeeze the sides of the metal face shield and lift it from the unit.
- Grasp each lamp with thumb and forefinger, twisting 90-degrees to remove from the sockets.
- Place a new lamp in the upper and lower sockets, twisting 90-degrees to seat the lamp securely.
- Reattach the metal face shield while squeezing the sides, and re-insert the top and bottom set screws (do not over-tighten). The unit is now ready for use.



Remove top and bottom set screws to remove shield.



Grasp the old lamp between the thumb and forefinger, twisting it 90-degrees to remove it from the sockets.

CLEANING

Keep the unit clean. Remove dirt, dust and fingerprints using a mild soap and water solution applied with a soft cloth or paper towel. Do not use industrial or household cleaners as these may damage the unit's surface.

UVP120ST Specifications:

Light Source: Two (2) UV-C germicidal type (No. G6T5), 6-watt Shortwave (254nm) UV bulbs

Power Supply: 16-AA Alkaline Batteries (Included); 110V/220V AC Power Adapter (Included)

Construction: Brushed aluminum, ABS and acrylic plastic

Dimensions: 9.75" x 6.5" x 4.625" (24.8cm x 16.5cm x 11.75cm)

Weight (with batteries): 3.53 lbs. (1.6kg)

Precautions: Ultraviolet Radiation

The three areas of ultraviolet radiation are UV-C at 100 to 280nm, UV-B at 280 to 315nm, and UV-A at 315 to 400nm. UV-C is the shortest wave ultraviolet radiation and UV-A is the longest wave ultraviolet radiation.

The retina of the eye is not very vulnerable in the ultraviolet or the far-infrared portions of the spectrum. It is the cornea and the lens that absorb ultraviolet. High exposure levels can permanently damage these structures of the eye. Intermediate levels in the UV (200-320nm) cause greater injury to the cornea, which is severe but temporary. The injury, photokeratitis, may last for only one or two days but is extremely painful. Near-ultraviolet (long wavelength UV-A) is absorbed heavily in the lens of the eye. Damage to this area of the eye may not be evident for many years and may have lasting effects.

Human skin is also susceptible to radiation injury. This susceptibility occurs in the range of radiant energy present in the ultraviolet spectral region of 200-320nm. This type of radiation can cause severe sunburn. Certain photosensitizing chemicals greatly increase the sensitivity of the skin. Previous exposures to specific wavelength bands that are generally in the long wavelength ultraviolet and visible portion of the spectrum also sensitize the skin. Some orally administered drugs such as tetracyclines and common pain relievers also cause photosensitization.

The factors predisposing individuals to possible harm from ultraviolet radiation are:

- Sensitivity of the individual
- The length of exposure
- Intensity of the ultraviolet light source
- Light source/surface distance

Recommended Personal Protective Equipment:

- UV absorbing face shield or glasses with side shields
- Long sleeved laboratory coat or overalls
- Opaque cotton or garamid fiber gloves

SIRCHIE Finger Print Laboratories shortwave UV lamps utilize low-pressure mercury lamps, which emit radiation in the UV-C (254nm) spectrum. Any amount of exposure to these lamps should be considered hazardous and protective equipment for the eyes and exposed skin must be worn. When using any UV lamp, avoid needless exposure to radiation and turn the lamp off when not in use.