PHTSS1000A SirchSTAND Forensic Photography Stand

Background and Purpose

Traditionally, a copy stand is used with a camera for the reproduction of images or documents. The set-up guarantees a 90 degree angle to the table surface, eliminating potential distortion caused by angled photography. It also allows the photographer to work hands free, staging the document or object with proper lighting. In forensics, copy stands are regularly used to photograph evidence, including latent fingerprints, processed documents, and cyanoacrylate fumed objects.

The PHTSS1000A SirchSTAND™ Forensic Photography Stand was created with forensic photography as the focus. The unit incorporates a series of ALS flashlights (white), UV (365nm), and blue (455nm) that can be utilized for a wide variety of evidence. It has an easy-to-use adjustable column, and a camera mount that can support from a simple digital point and shoot to a complex DSLR or SLR film camera, with a maximum weight of 3.0 lbs. (1.36 Kg.) for the camera, lens and battery. In addition, the metal base permits the use of FXMAG4 magnets to hold evidence in place. Its etched square cm grid eliminates the need for a scale in many cases. It is so simple to use, and extremely versatile, all in an easy-to-transport design.

Safety Info

Ultraviolet light can be damaging to the eyes. Do not look directly into, or point the UV light directly at a person's eyes. To prevent unnecessary damage, wear UV eye protection when operating the UV lights.

100 HUNTER PLACE, YOUNGSVILLE, NC 27596 USA
Ph: (919) 554-2244, (800) 356-7311 • Fax: (919) 554-2266, (800) 899-8181
• Web: www.sirchie.com • Email: sirchieinfo@sirchie.com

ASSEMBLY

Refer to *"Attaching the Column to the Base"* photos on final page

1. Place table on a flat surface.
2. Remove column securing knob from column support base.
3. Place column over pins in column support base and seat the column into the support base.
4. Tighten column securing knob.

OPERATION

Flashlights

1. Check that one 18650 battery is installed correctly, in each flashlight to be used with the stand.
2. Operate flashlight by pressing the black rubber on/off button on the rear end cap.
3. A flashlight can be snapped into any of the clip heads on the 4 table arms and the 2 arms on the camera mount.

Copy Stand

1. Attach a camera to the standard tripod mounting 1/4-20 screw. Make sure that the camera lens is centered with the column. There is room to adjust the camera position side to side in the camera mount bracket.

2. To raise or lower the camera, rotate the crank handle to move the camera mount vertically along the column.

Utilizing the Lights

The PHTSS1000A SirchSTAND™ provides three different light sources for different types of evidence.

LIGHT SOURCE	USAGE
UV 365nm	Physiological fluids, fluorescent powders, fluorescent staining agents (i.e. ardrox, basic yellow)
White	Standard photography, oblique lighting for indented writing or casting detail
Blue 455nm	Used with an orange filter (<530nm) to eliminate backgrounds for physiological fluids, fluorescent powder, fluorescent staining agents, DFO processed documents

The lights can be mounted in any of the six positions provided. The four table mounted flex arms are useful for general illumination as well as oblique lighting. The two camera mount plate flex arms can be utilized when the object to be photographed is taller than table mounted lights, allowing proper illumination with the camera raised higher.

Note: For large objects, the flexible arms can be removed from the table to allow the object to extend beyond the table edges. Simply unscrew the flex arms from the base plate to remove them.

Product Information

Base	Column	Flashlights	Flex Arms
Height 1.5 in. (3.8 cm)	32 in. (81.3 cm) tall	2 – White LED	4 – 16 in. (40.6 cm) flex w/C-clips, table mount
Width 16 in. (40.6 cm)	Crank height adjustment	2 – 365nm UV LED	2 – 12 in. (30.5 cm) flex w/C-clips, camera mount
Depth 20 in. (50.8 cm)	Ruled: inch and cm	2 – 455nm Blue LED	Screw mount (1/4-20 thread)
Black powder coated steel	Black powder coated AL	Black anodized AL	Black vinyl coated, flexible steel
1 cm grid			

Weight 20 lb. (9.1 kg) **Maximum Weight of Camera + Lens + Battery** 3.0 lbs (1.36 Kg.)

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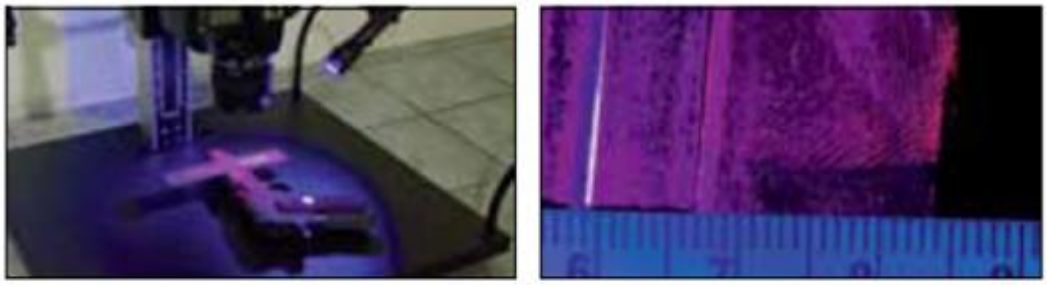
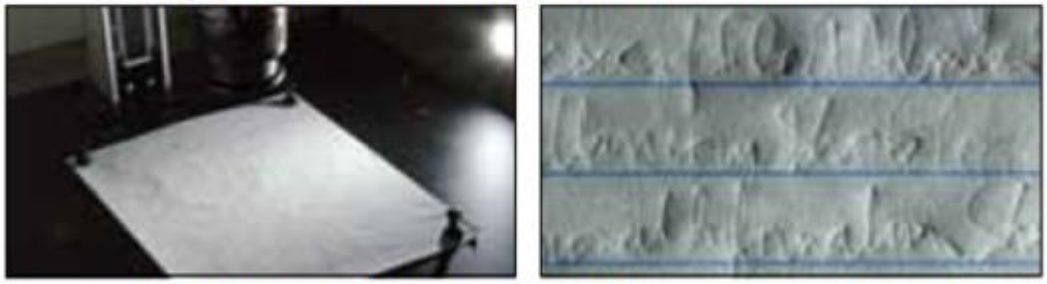
Cleaning and Maintenance

Simply wipe down surfaces with a clean damp cloth. No other maintenance is necessary.

Usage Photos



The UV light (365nm) in use with a DSLR with macro lens can be used for close-up photos of fingerprints developed with fluorescent powder (camera not included).



Oblique white light used with a DSLR with macro lens for close-up photos of indented writing (camera not included).

REFERENCES:

Halla, Susan and Ryan M. Rezelle. "Sharpening the Focus: Forensic Photography and Its Impact on Facility Design", Forensic Magazine, Dec. 2010/Jan. 2011 http://www.forensicmag.com/article/sharpening-focus-forensic-photography-and-its-impact-facility-design?page=0,0, 15 Sept. 2011

International Association of Identification SWIGIT, "General Guidelines for Capturing Latent Impressions Using a Digital Camera", Version 1.3 2010.06.11. http://www.theiai.org/guidelines/swgit/guidelines/section_8_v1-3.pdf, 15 Sept. 2011

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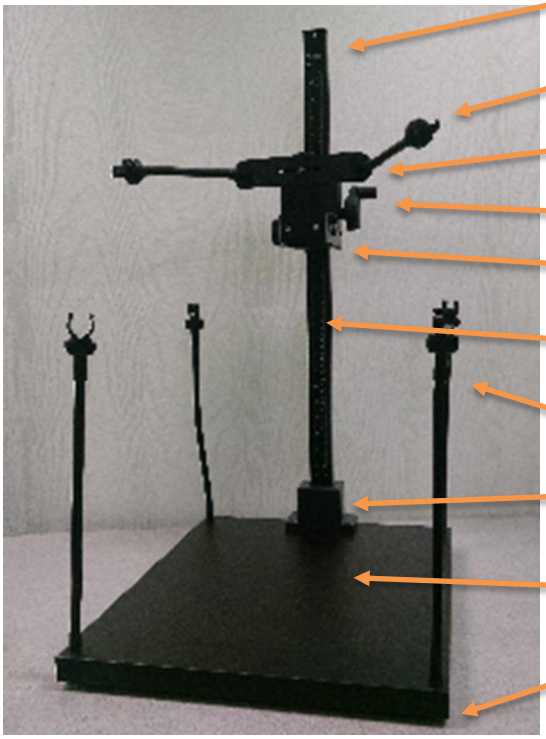
Technical Information TI17-693ENG-REV2

Product Photos

Components



Column (32 in. / 81.3 cm) tall

12 in. flex arms w/C-clips

Camera Mount Plate

Column Height Adjust Crank

Horizontal Adjustment Bracket

Column Scale (in. & cm)

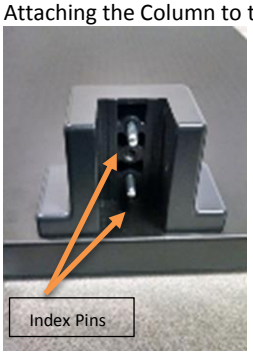
16 in. flex arms w/C-clips

Column Support Base

Base with 1 cm grid

Rubber Feet

Attaching the Column to the Base



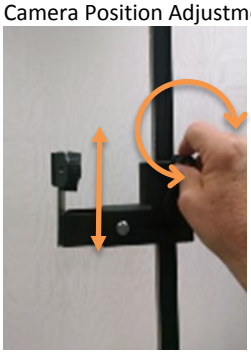
Column Support Base

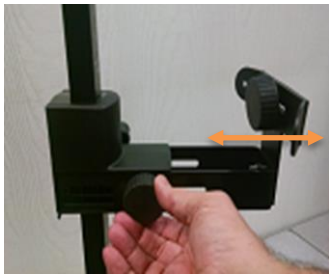
Column


Press Column onto Index Pins in Support Base


Secure Column into Support Base with Knob

Camera Position Adjustments


Rotate Handle to adjust Camera position vertically.


Loosen knob & slide to adjust Camera position horizontally. Tighten knob to secure.


Slide to adjust Camera position laterally.

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