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## TECHNICAL INFORMATION

### UVBeam™ UV Examiner Catalog No. BUV200

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#### INTRODUCTION

SIRCHIE has developed the UVBeam™ to provide another tool for up close examination of UV fluorescing materials, like bodily fluids, that are not easily identified in visible light. The unit is also suitable for revealing UV sensitive inks, used in passports, documents, and marking inks for crowd control at sporting events and concerts. The large magnifier and adjustable arm allows the examiner to free their hands to improve their efficiency and accuracy when working with evidence.

The UVBeam™ features a full 18-watts of UV illumination with two individually controlled banks of light housing two 9-watt lamps. The 360° lamp head/



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swing-arm assembly, designed to stay parallel to the viewing surface, comes equipped with an extra-large acrylic magnifier offering up to 3X magnification.

### **CAUTION/WARNING**

Low voltage 110V. To avoid risk of electrical shock, use in dry location only. Do not disassemble unit—return to manufacturer for repairs as required. Long exposure to 365nm UV can cause damage to the eyes. UV blocking goggles or glasses should be worn during prolonged use of the UVBeam™.



### **OUTSTANDING FEATURES**

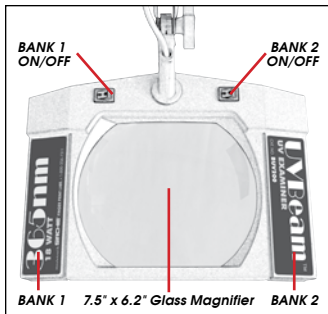
- 2 individually controlled banks housing 2 9-watt lamps for 18-watts of UV illumination (365nm)
- Fully articulated lamp head/swing-arm assembly rotates a full 360°
- Extra-large 3 diopter acrylic magnifier
- Mounts to most laboratory tables and desks (maximum 2.875" thickness)

### **LIST OF SUPPLIED PARTS**

- Desktop-mountable, swing-arm forensic examiner with an extra-large acrylic magnifier with 3-diopters of magnification
- Mounting Clamp (max. mounting of 2.875")

### **CONTROLS**

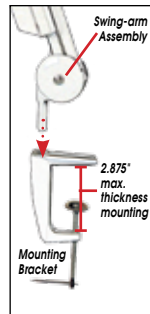
Two individually controlled banks housing two 9-watt lights operating at 365nm for a total of 18-watts of UV illumination. A power switch is provided for each bank. With the unit plugged into the appropriate 110V AC outlet, push the rocker ON/OFF switch to the ON position for the banks of lights you require.



## OPERATION

Plug unit into a 110V AC supply (wall socket). Attach the mounting bracket to any desktop that does not exceed 2.875" thickness. Insert the swing-arm assembly into this bracket (as shown to the right). Adjust the lamp head so it is parallel to the viewing surface and the evidence under examination is properly illuminated.

Turn the individual light banks on to provide the necessary 365nm UV illumination of the viewing surface as described under CONTROLS.



## Evidence Examination

The BU200 365nm frequency produces fluorescence in UV sensitive materials (invisible skin marking inks used for pass in-pass out applications, the fluorescent stripe in US currency, and the UV sensitive emblem imprinted on high-security credit cards today). The 360° lamp head/swing-arm assembly, designed to stay parallel to the viewing surface, comes equipped with an extra-large glass magnifier offering 3 diopters of magnification. UV sensitive materials are highly visible as shown to the right.



## MAINTENANCE

The only maintenance required is to occasionally clean the magnifying surface with a mild soapy solution. Do not use solvents as this may damage the surfaces. Return to manufacturer for any mechanical problems not covered under "Troubleshooting". DO NOT disassemble as this will void the warranty.

### Lamp Replacement

1. Remove the protective lamp cover to gain access to the spent lamp (Fig. 1).
2. Gently rock the lamp back-and-forth in a tugging motion to dislodge it from the lamp bank (Fig. 2).
3. Insert the new lamp into the socket until it clicks in place. Order No. 11954 Replacement Bulb, 9-watt LW (365nm).



FIGURE 1



FIGURE 2

#### SPECIFICATIONS:

- Light Source (365nm): two 9-watt lamps
- Power: 110V AC only
- Dimensions:  
Swing Arm: 36" (91.4cm) max. extension  
Lamp Head: 11.75" x 8.6" x 1.5" (29.8cm x 21.8cm x 3.8cm)  
Glass Magnifier: 7.5" x 6.2" (19cm x 15.7cm)
- Total Weight: 9.4 lbs. (4.26kg)

### TROUBLESHOOTING

Problem	Possible Causes	Solution
Neither light bank turns on	Unit isn't plugged in	Plug in unit
	Power failure	Check circuit breaker
	Power switch isn't turned on	Push switch to ON
	Bulbs may be blown	See LAMP REPLACEMENT
Light is weak	Bulb(s) may not be seated properly	Check that bulb(s) is inserted completely
	Bulb(s) may be failing	See LAMP REPLACEMENT