



*System Assessment and Validation for Emergency Responders (SAVER)*

# Portable Forensic Light Kits Market Survey Report

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Security**

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System Assessment and Validation for Emergency Responders

*Prepared by Space and Naval Warfare Systems Center Atlantic*

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## FOREWORD

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The U.S. Department of Homeland Security (DHS) established the System Assessment and Validation for Emergency Responders (SAVER) Program to assist emergency responders making procurement decisions. Located within the Science and Technology Directorate (S&T) of DHS, the SAVER Program conducts objective assessments and validations on commercially available equipment and systems, and develops knowledge products that provide relevant equipment information to the emergency responder community. The SAVER Program mission includes:

- Conducting impartial, practitioner-relevant, operationally oriented assessments and validations of emergency response equipment; and
- Providing information, in the form of knowledge products, that enables decision-makers and responders to better select, procure, use, and maintain emergency response equipment.

SAVER Program knowledge products provide information on equipment that falls under the categories listed in the DHS Authorized Equipment List (AEL), focusing primarily on two main questions for the responder community: “What equipment is available?” and “How does it perform?” These knowledge products are shared nationally with the responder community, providing a life- and cost-saving asset to DHS, as well as to Federal, state, and local responders.

The SAVER Program is supported by a network of Technical Agents who perform assessment and validation activities. As a SAVER Program Technical Agent, the Space and Naval Warfare Systems Center (SPAWARSYSCEN) Atlantic has been tasked to provide expertise and analysis on key subject areas, including communications, sensors, security, weapon detection, and surveillance, among others. In support of this tasking SPAWARSYSCEN Atlantic developed this report to provide emergency responders with information gathered during a market survey of commercially available portable forensic light kits, which fall under AEL reference number 20CS-02-UVLT titled Equipment, Ultraviolet Light Detection.

Visit the SAVER website on First Responder.gov (<http://www.firstresponder.gov/SAVER>) for more information on the SAVER Program or to view additional reports on portable forensic light kits or other technologies.

## **POINTS OF CONTACT**

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## 1. INTRODUCTION

Portable forensic light kits are used by law enforcement to detect and analyze evidence found during crime scene investigations. To provide emergency responders with information on portable forensic light kits, the System Assessment and Validation for Emergency Responders (SAVER) Program conducted a market survey.

This market survey report is based on information gathered from September 2013 through July 2014 from vendors, Internet research, industry publications, an emergency responder focus group, and a government issued Request for Information (RFI) that was posted on the Federal Business Opportunities website. For inclusion in this report, the portable forensic light kits had to include—at a minimum—an alternate light source (ALS) that emits a blue or ultraviolet (UV) wavelength.

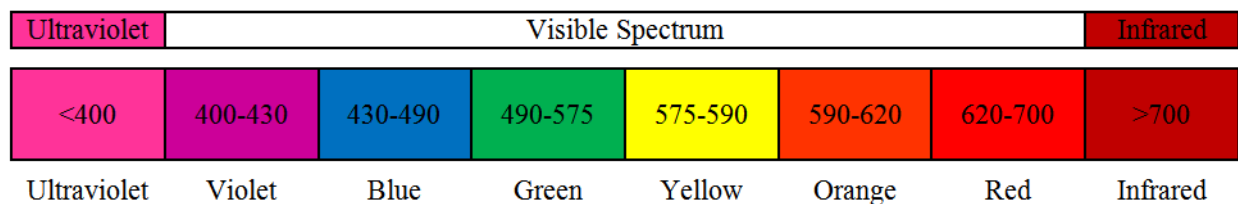
Due diligence was performed to develop a report that is representative of products in the marketplace.

## 2. PORTABLE FORENSIC LIGHT KITS OVERVIEW

Portable forensic light kits typically include at least one ALS, barrier filter, power source, and a carrying case.

### 2.1 ALS

An ALS emits UV, visible, and/or infrared (IR) light that is filtered to individual color bands (wavelengths), shown in Figure 2-1. The wavelengths enhance the visualization of evidence, which may glow (fluoresce) or darken when illuminated using the ALS and viewed using the corresponding barrier filter (refer to section 2.2 for more information on barrier filters).



All wavelengths measured in nanometers (nm)

**Figure 2-1. Wavelengths Relevant to Forensics**

Different wavelengths enhance the appearance of different types of evidence; therefore, multiple wavelengths may be required to complete a thorough investigation of a crime scene. Some kits provide a different ALS for each wavelength (Figure 2-2). The ALSs in this type of kit typically resemble flashlights—each have their own light and power source. When the operator wants to change wavelengths, they select another ALS from the kit. Some kits feature a single ALS with interchangeable heads (Figure 2-3) or barrier filters (Figure 2-4) that change the wavelength. Although less common, some portable ALSs feature a variable wavelength control to adjust the wavelength (Figure 2-5).



**Figure 2-2. A Kit Featuring Multiple ALSs, Each with a Different Wavelength**



**Figure 2-3. A Kit Featuring an ALS with Interchangeable Heads to Change the Wavelength**



**Figure 2-4. A Kit Featuring an ALS with Barrier Filters to Change the Wavelength**



**Figure 2-5. An ALS with a Variable Wavelength Control**

*Photos courtesy of Arrowhead Forensics*

## **2.2 Barrier Filters**

Barrier filters are used in conjunction with an ALS to block specific wavelengths of light and further increase the visibility of evidence. Barrier filter goggles also protect the operator's eyes when an ALS is in use. Camera lens barrier filters (Figure 2-6) can be used to photograph evidence illuminated by an ALS. Additionally, handheld colored barrier filters (Figure 2-7) can be used to view evidence illuminated by an ALS.



**Figure 2-6. Camera Lens Barrier Filters**



**Figure 2-7. Handheld Barrier Filters**

## **2.3 Power**

The ALSs in portable forensic light kits may be powered by either proprietary or commercially available batteries, or run on AC power only. The proprietary batteries in ALSs are typically rechargeable, whereas commercially available batteries may be single-use (disposable) or rechargeable. To extend operation beyond the battery runtime, many battery-powered ALSs feature user-replaceable batteries, run on AC power, and/or can be used while charging the battery.

## **2.4 Safety Considerations**

Since ALSs emit high-intensity UV, visible, and IR light, operators and other persons in the vicinity of an ALS in operation should never look directly into the light emitted from an ALS. Those near an ALS when in operation should always wear protective eyewear and skin protection. Unprotected exposure to the wavelengths emitted by an ALS can result in serious damage to the eyes and/or skin.

## **3. PRODUCT INFORMATION—VENDOR PROVIDED**

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This section provides general product specifications on more than 50 portable forensic light kits that range in price from \$117 to \$48,000. All kits include barrier filter goggles that are compatible with the wavelengths provided in the kit. In addition, technical support is available for all kits for at least 8 hours a day, Monday through Friday. Warranties vary from 90 days to 2 years. Current warranty information is available from the respective vendors. Product information presented in this section was obtained from vendors and their websites. The information has not been independently verified by the SAVER Program. Clarification on certain specifications in Table 3-1 is provided below, listed in alphabetical order:

**Battery Type** refers to whether each ALS accepts proprietary or commercially available batteries. If commercially available, the quantity and size are provided, if known. All proprietary batteries are rechargeable.

**Battery Runtime (hours)** refers to the approximate amount of time the ALS will operate before it requires battery replacement or charging. Runtimes vary with wavelength.



**Table 3-1. Portable Forensic Light Kits Specifications**

Vendor	Product	MSRP	Dimensions (inches)	Weight (pounds)	Number of Lights	Bulb Type	Wavelengths (nm)	Battery Type	Battery Runtime (hours)	User Replaceable Battery	AC Power	Temperature Ranges
Arrowhead Forensics	455nm LED Forensic Light Source Kit (A-6994FK)	\$139	ALS: 8x1x1 Kit: 12x6x3	ALS: 1 Kit: 5	1	LED	455 (Blue)	2 CR123	6	✓		30° to 90°F (O and S)
	Bio Light Forensic Light Source Kit (A-6994FKUV)	\$227	ALS: 6x1x1 Kit: 12x6x3	ALS: 2 Kit: 5	2	LED	365 (UV)	2 AA	6	✓		30° to 90°F (O and S)
							455 (Blue)	2 CR123				
	CrimeCam Full Spectrum Mobile Image Capture System (A-FS-5-16MP)	\$43,900	ALS: NP Kit: 22x14x9	ALS: NP Kit: 27	6	LED	254, 365 (UV) 455 (Blue) 525 (Green) 625 (Red) 850 (IR)	Proprietary	3	✓	✓ <sup>1</sup>	30° to 90°F (O and S)
	Reveal Forensic Field Light Kit (A-FS7)	\$2,300	ALS: 4.4x1 Kit: 16x6x6	ALS: 0.3 Kit: 9	6	LED	White 365 (UV) 455 (Blue) 525 (Green) 625 (Red) 850 (IR)	Proprietary	3	✓		30° to 90°F (O and S)
Streamlight Twin-Task 3C-UV Kit (A-6990FL-K)	\$117	ALS: 9x1.7x1.3 Kit: 12x6x3	ALS: 1 Kit: 5	1	LED, Xenon	White 390 (UV)	3 C	NP	✓		30° to 90°F (O and S)	

See page 16 for notes and definitions of the abbreviations used throughout this matrix.

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Vendor	Product	MSRP	Dimensions (inches)	Weight (pounds)	Number of Lights	Bulb Type	Wavelengths (nm)	Battery Type	Battery Runtime (hours)	User Replaceable Battery	AC Power	Temperature Ranges
CAO Group Inc.	UltraLite ALS Basic Domestic Violence and Sexual Assault (DVSA) Kit BMT (Blue) Turbo (200-00108) or UV (200-00007)	\$1,325	ALS: 6x4.5x1.3 Kit: 15.6x18.4x5	ALS: 0.7 Kit: 7.7	1	LED	400 (UV) or 450 (Blue)	Proprietary	1	✓		-22° to 104°F (O and S)
	UltraLite ALS Basic Turbo Kit (200-00110)	\$1,995	ALS: 6x4.5x1.3 Kit: 15.6x18.4x5	ALS: 0.7 Kit: 6.6	1	LED	450 (Blue)	Proprietary	1		✓	-22° to 104°F (O and S)
	UltraLite ALS Basic Plus Turbo Kit (200-00114)	\$2,300	ALS: 6x4.5x1.3 Kit: 15.6x18.4x5	ALS: 0.7 Kit: 8.2	1	LED	450 (Blue)	Proprietary	1	✓	✓	-22° to 104°F (O and S)
	UltraLite ALS Complete DVSA Turbo Kit UV (200-00109)	\$2,800	ALS: 6x4.5x1.3 Kit: 15.6x18.4x5	ALS: 0.7 Kit: 8.0	1	LED	White 400 (UV) 450 (Blue)	Proprietary	1	✓	✓	-22° to 104°F (O and S)
	UltraLite ALS Complete Turbo Kit (200-00111)	\$4,895	ALS: 6x4.5x1.3 Kit: 15.6x18.4x5	ALS: 0.7 Kit: 9.1	1	LED	400 (UV) 450 (Blue) 525 (Green) 590 (Yellow) 630 (Red)	Proprietary	1	✓	✓	-22° to 104°F (O and S)

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Vendor	Product	MSRP	Dimensions (inches)	Weight (pounds)	Number of Lights	Bulb Type	Wavelengths (nm)	Battery Type	Battery Runtime (hours)	User Replaceable Battery	AC Power	Temperature Ranges
CAO Group Inc.	UltraLite ALS Ultra Turbo Kit (200-00106)	\$5,600	ALS: 6x4.5x1.3 Kit: 15.6x18.4x5	ALS: 0.7 Kit: 9.2	1	LED	White 400 (UV) 450 (Blue) 525 (Green) 590 (Yellow) 630 (Red)	Proprietary	1	✓	✓	-22° to 104°F (O and S)
Coherent Inc.	TracER series	\$46,000 to \$48,000 <sup>2</sup>	ALS: NP Kit: 16.2x12.2x14.9	ALS: NP Kit: 45	1	Laser	460 (Blue) 532 (Green) 577 (Yellow)	Proprietary	1.5	✓	✓	50° to 95°F (O and S)
	TracER Compact series	\$28,500 to \$42,500 <sup>2</sup>	ALS: NP Kit: 14.1x8.1x11.1	ALS: NP Kit: 23	1	Laser	460 (Blue) 532 (Green) 577 (Yellow)	Not Applicable		✓		50° to 95°F (O & S)
Foster & Freeman USA	Complete Crime-lite 2 Kit (QCL2/8KIT/P)	\$7,577	ALS: 9 x 1.8 Kit: 19x14x8	ALS: 1.1 Kit: 28	8	LED	White 365 (UV) 410 (Violet) 445 (Blue) 480 (Cyan) 530 (Green) 590 (Orange) 640 (Red)	Proprietary	2 to 4	✓	✓	32° to 86°F (O) -4° to 104°F (S)

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Vendor	Product	MSRP	Dimensions (inches)	Weight (pounds)	Number of Lights	Bulb Type	Wavelengths (nm)	Battery Type	Battery Runtime (hours)	User Replaceable Battery	AC Power	Temperature Ranges
Foster & Freeman USA	Complete Crime-lite 82S Kit (QCL/82SL/9KIT)	\$30,430	ALS: 9x2 82L: NP Kit: 33x22x15	ALS: 1.3 82L: 2 Kit: 51	9	LED	White 365 (UV) 410 (Violet) 445 (Blue) 480 (Cyan) 560 (Green) 590 (Orange) 625 (Red) 82L (High intensity white light)	Commercially available rechargeable 18V Lithium-ion (Li-ion)	≤10	✓	✓	50° to 104°F (O) 32° to 122°F (S)
	Crime-lite 2 Advanced CSI Search Kit (QCL2/5KIT/P)	\$5,556	ALS: 9x1.8 Kit: 19x14x8	ALS: 1.1 Kit: 23	5	LED	White 410 (Violet) 445 (Blue) 480 (Cyan) 530 (Green)	Proprietary	2 to 4	✓	✓	32° to 86°F (O) -4° to 104°F (S)
	Crime-lite 2 Basic Search Kit (QCL2/2KITBG/P)	\$2,757	ALS: 9x1.8 Kit: 16x12x7	ALS: 1.1 Kit: 13	2	LED	445 (Blue) 530 (Green)	Proprietary	2 to 4	✓	✓	32° to 86°F (O) -4° to 104°F (S)
	Crime-lite 2 Body Fluids Search Kit (QCL2/3KIT/P)	\$3,404	ALS: 9x1.8 Kit: 16x12x7	ALS: 1.1 Kit: 14	3	LED	White 365 (UV) 445 (Blue)	Proprietary	2 to 4	✓	✓	32° to 86°F (O) -4° to 104°F (S)

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Vendor	Product	MSRP	Dimensions (inches)	Weight (pounds)	Number of Lights	Bulb Type	Wavelengths (nm)	Battery Type	Battery Runtime (hours)	User Replaceable Battery	AC Power	Temperature Ranges
Foster & Freeman USA	Crime-lite 2 CSI Search Kit (QCL2/4KIT/P)	\$4,656	ALS: 9x1.8 Kit: 19x14x8	ALS: 1.1 Kit: 15	4	LED	White 365 (UV) 445 (Blue) 530 (Green)	Proprietary	2 to 4	✓	✓	32° to 86°F (O) -4° to 104°F (S)
	Crime-lite 42S Basic Crime Scene Search Kit (QCL/42S/2KWBG)	\$6,514	ALS: 9x2 Kit: 19x15x7	ALS: 1.3 Kit: 25	2	LED	White 420-470 (Blue) 490-560 (Green)	Commercially available rechargeable 18V Li-ion	≤10	✓	✓	50° to 104°F (O) 32° to 122°F (S)
	Crime-lite 42S General Search & Examination Kit (QCL/42S/2KWBUVV)	\$8,896	ALS: 9x2 Kit: 19x15x7	ALS: 1.3 Kit: 25	2	LED	White 350-380 (UV) 395-425 (Violet) 420-470 (Blue)	Commercially available rechargeable 18V Li-ion	≤10	✓	✓	50° to 104°F (O) 32° to 122°F (S)
	Crime-lite 42S Complete Search & Examination Kit (QCL/42S/4KIT)	\$14,423	ALS: 9x2 Kit: 19x15x7	ALS: 1.3 Kit: 28	4	LED	White 350-380 (UV) 395-425 (Violet) 420-470 (Blue) 450-510 (Cyan) 490-560 (Green) 570-610 (Orange)	Commercially available rechargeable 18V Li-ion	≤10	✓	✓	50° to 104°F (O) 32° to 122°F (S)
	Crime-lite 82S Basic Search Kit (QCL/82S/UVVB)	\$8,634	ALS: 9x2 Kit: 19x15x7	ALS: 1.3 Kit: 25	3	LED	365 (UV) 410 (Violet) 445 (Blue)	Commercially available rechargeable 18V Li-ion	≤10	✓	✓	50° to 104°F (O) 32° to 122°F (S)

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Vendor	Product	MSRP	Dimensions (inches)	Weight (pounds)	Number of Lights	Bulb Type	Wavelengths (nm)	Battery Type	Battery Runtime (hours)	User Replaceable Battery	AC Power	Temperature Ranges
Foster & Freeman USA.	Crime-lite 82S 6 Light Kit (QCL/82S/6KIT)	\$21,782	ALS: 9x2 Kit: 25x20x12	ALS: 1.3 Kit: 30	6	LED	White 365 (UV) 410 (Violet) 445 (Blue) 480 (Cyan) 560 (Green)	Commercially available rechargeable 18V Li-ion	≤10	✓	✓	50° to 104°F (O) 32° to 122°F (S)
	Crime-lite 82S 7 Light Kit (QCL/82SL/7KIT)	\$23,865	ALS: 9x2 82L: NP Kit: 25x20x12	ALS: 1.3 82L: 2 Kit: 35	7	LED	White 365 (UV) 410 (Violet) 445 (Blue) 480 (Cyan) 560 (Green) 82L (High intensity white light)	Commercially available rechargeable 18V Li-ion	≤10	✓	✓	50° to 104°F (O) 32° to 122°F (S)
	Crime-lite 82S 8 Light Kit (QCL/82S/8KIT)	\$28,347	ALS: 9x2 Kit: 25x20x12	ALS: 1.3 Kit: 35	8	LED	White 365 (UV) 410 (Violet) 445 (Blue) 480 (Cyan) 530 (Green) 590 (Orange) 625 (Red)	Commercially available rechargeable 18V Li-ion	≤10	✓	✓	50° to 104°F (O) 32° to 122°F (S)

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Vendor	Product	MSRP	Dimensions (inches)	Weight (pounds)	Number of Lights	Bulb Type	Wavelengths (nm)	Battery Type	Battery Runtime (hours)	User Replaceable Battery	AC Power	Temperature Ranges
Labino	Astra Torch LED – Base Kit (A-L702) <sup>3</sup>	\$4,016	ALS: 12.4 long Kit: 12x6x3	ALS: 1.1 Kit: 7	1	LED	365 (UV)	1 Li-Ion or 3 Alkaline (size not provided)	2.5	✓		30° to 90°F (O and S)
	Astra Torch LED – Full Kit (A-L702F) <sup>3</sup>	\$5,675	ALS: 12.4 long Kit: 12x6x3	ALS: 1.1 Kit: 7	1	LED	White 365 (UV) 455 (Blue) 505 (Cyan) 530 (Green) 590 (Amber) 627 (Red)	1 Li-Ion or 3 Alkaline (size not provided)	2.5	✓		30° to 90°F (O and S)
	Nova Torch LED (A-L1102) <sup>3</sup>	\$2,724	ALS: 6.3 long Kit: 12x6x3	ALS: 0.4 Kit: 7	8	LED	White 365 (UV) 400 (Purple) 455 (Blue) 505 (Cyan) 530 (Green) 590 (Amber) 625 (Red)	1 Li-Ion (size not provided)	3	✓	✓	30° to 90°F (O and S)
Lumatec	Superlite 400 (A-3883L) <sup>3</sup>	\$13,257	ALS: 10x6x4 Kit: 24x12x10	ALS: 10 Kit: 20	1	Xenon	320 to 700 (10 wavelengths that can be dialed and adjusted continuously)	Proprietary	1	✓	✓	30° to 90°F (O and S)

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Vendor	Product	MSRP	Dimensions (inches)	Weight (pounds)	Number of Lights	Bulb Type	Wavelengths (nm)	Battery Type	Battery Runtime (hours)	User Replaceable Battery	AC Power	Temperature Ranges
Lumatec	Superlite M (A-3930L) <sup>3</sup>	\$4,750	ALS: 9.5 long Kit: 14x6x4	ALS: 1.1 Kit: 10	1	LED	White 365 (UV) 405 (Violet) 455 (Blue)	Proprietary	2.5	✓	✓	30° to 90°F (O and S)
	Superlite M Blue (A-3931L) <sup>3</sup>	\$3,180	ALS: 9.5 long Kit: 14x6x4	ALS: 1.1 Kit: 7	1	LED	White 455 (Blue)	Proprietary	2.5	✓	✓	30° to 90°F (O and S)
Rofin Forensics	Polilight PL400 Forensic System (A-10001) <sup>3</sup>	\$8,600	ALS: 6x6x12 Kit: 13.3x6.8x11.4	ALS: 12 Kit: 14.4	1	Metal Halide	White 350 (UV) 415 (Violet) 450, 490, LP530 (Blue) 505 (Cyan) 530 (Green)	Not Applicable			✓	30° to 90°F (O and S)
	Polilight PL400 Forensic System Plus (A-10002) <sup>3</sup>	\$10,666	ALS: 6x6x12 Kit: 13.3x6.8x11.4	ALS: 12 Kit: 14.4	1	Metal Halide	White 350 (UV) 415 (Violet) 430, 450, 470, 480, 490 (Blue) 505 (Cyan) 515, 530 (Green) 550 (Green/Orange) 560, 570 (Orange) LP560 (NP) 590 (Orange/Red) 620, 650 (Red)	Not Applicable			✓	30° to 90°F (O and S)



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Vendor	Product	MSRP	Dimensions (inches)	Weight (pounds)	Number of Lights	Bulb Type	Wavelengths (nm)	Battery Type	Battery Runtime (hours)	User Replaceable Battery	AC Power	Temperature Ranges
Rofin Forensics	Polilight PL500 (A-10034) <sup>3</sup>	\$18,933	ALS: 13x5.7x14 Kit: 18.5x9x14.3	ALS: 22 Kit: 30	1	Xenon	White 240 (IR, only IR models) 350 (UV) 415 (Violet) 450, 470, 490 (Blue) 505 (Cyan) 530 (Green) 555 (Green/Orange) 590 (Orange) 620 (Orange/Red) 650 (Red)	Not Applicable		✓		30° to 90°F (O and S)
	Polilight PL500 IR (A-POL0004) <sup>3</sup>	\$20,800										
	Polilight PL500SC (A10000) <sup>3</sup>	\$20,800										
	Polilight PL500SC IR (A-10065) <sup>3</sup>	\$22,666										
	Polilight-Flare Plus2 3 Head Kit (A-FL2KITS) <sup>3</sup>	\$5,782	ALS: 10.8 long Kit: 12x6x3	ALS: 1.9 Kit: 10	3	LED	White 365 (UV) 450 (Blue)	Proprietary	5		✓	30° to 90°F (O and S)
	Polilight-Flare Plus2 8 Head Kit (A-FL2KIT) <sup>3</sup>	\$14,225	ALS: 10.8 long Kit: 20x12x6	ALS: 1.9 Kit: 20	8	LED	White 365 (UV) 415 (Violet) 450 (Blue) 505 (Cyan) 530, 545 (Green) 620 (Red)	Proprietary	5		✓	30° to 90°F (O and S)

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Vendor	Product	MSRP	Dimensions (inches)	Weight (pounds)	Number of Lights	Bulb Type	Wavelengths (nm)	Battery Type	Battery Runtime (hours)	User Replaceable Battery	AC Power	Temperature Ranges
Rofin Forensics	Polilight-Flare Plus2 Power Blue Kit (A-FL2KITPB) <sup>3</sup>	\$4,000	ALS: 10.8 long Kit: 24x12x6	ALS: 1.9 Kit: 5	2	LED	450 (Blue) 505 (Cyan)	Proprietary	5		✓	30° to 90°F (O and S)
Sirchie Finger Print Laboratories	Forensic Alternate Light Source Kit (FAL3000)	\$3,995	ALS: 14.8x5x5 Kit: 20.6x16.9x8.1	ALS: 3.7 Kit: 25	1	Xenon	White 365 (UV) 415 (Violet) 450, 470 (Blue) 505 (Cyan) 530 (Green)	Proprietary	2	✓	✓	NP
	megaMAXX ALS System (MMX300)	\$1,195	ALS: 5.3x0.8 Kit: 18x15.5x5.5	ALS: 0.2 Kit: 10.4	8	LED	White 455, 470 (Blue) 505 (Cyan) 530 (Green) 590 (Orange) 625 (Red)	2 CR123	3	✓		NP
							395 (UV)	3 AAA				
	Tactical MAX Forensic Light Kit (TMX100)	\$250	ALS: 6.3x1.3 Kit: 11x9x4	ALS: 0.3 Kit: 2.5	3	LED	White 395 (UV) 455 (Blue)	2 CR123	3	✓		NP

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Vendor	Product	MSRP	Dimensions (inches)	Weight (pounds)	Number of Lights	Bulb Type	Wavelengths (nm)	Battery Type	Battery Runtime (hours)	User Replaceable Battery	AC Power	Temperature Ranges
Spectronics Corporation	Spectroline Maxima MFK-3500 Series Forensic Light Source Kit (MFK-3500S, UV spot beam)	\$5,738	ALS: 15x6 Kit: 21x14x10	ALS: 12.3 Kit: 29	1	MDL	Five interchangeable barrier filters: 365 (UV) 450 (Blue) 500 (Cyan) 525 (Green) 600 (Clear)	Proprietary 12V Lead Acid	2	✓	✓	41° to 104°F (O and S)
	Spectroline Maxima MFK-3500 Series Forensic Light Source Kit (MFK-3500D, UV diffused beam)	\$5,773										
	Spectroline OPTIMAX Multi-Lite LED Forensic Inspection Field Kit (OFK-300A)	\$1,125	ALS: 9 long Kit: 21x17x6	ALS: 1 Kit: 4.5	1	LED	White 365 (UV) 450 (Blue)	Commercially available rechargeable 3.6V Nickel Metal Hydride (NiMH)	1.5	✓	✓	41° to 104°F (O and S)
	Spectroline OPTIMAX Multi-Lite LED Inspection Kit (OFK-8000A)	\$1,695	ALS: 9 long Kit: 21x17x6	ALS: 1 Kit: 13	1	LED	White 365 (UV) 410 (Violet) 450 (Blue) 500 (Cyan) 525 (Green) 590 (Amber) 630 (Red)	Commercially available rechargeable 3.6V NiMH	1.5	✓	✓	40° to 104°F (O and S)

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Vendor	Product	MSRP	Dimensions (inches)	Weight (pounds)	Number of Lights	Bulb Type	Wavelengths (nm)	Battery Type	Battery Runtime (hours)	User Replaceable Battery	AC Power	Temperature Ranges
Spectronics Corporation	Spectroline TRITAN 365 UV-A Lamp Series (High Intensity: TRI-365HA; Standard Intensity: TRI-365DA)	\$1,695	ALS: 8x3.25 Kit: 13x10x9	ALS: 1 Kit: 4.7	1	LED	White 365 (UV)	Not Applicable		✓		30° to 90°F (O and S)
Tritech Forensics	Hammerhead Forensic Light Kit – 3+1 (CK-UVH3)	\$1,945	ALS: 6.6x2.2x1.5 Kit: 19.8x15.5x5.4	ALS: 0.5 Kit: 10	4	LED	White <b>Choose 3 of the following:</b> 395 (UV) 470 (Blue) 495 (Cyan) 525 (Green) 850 (IR)	3 CR123	2 to 8	✓	✓	-22° to 122°F (O and S)
	Hammerhead Forensic Light Kit – 4+1 (CK-UVH4)	\$2,148	ALS: 6.6x2.2x1.5 Kit: 19.8x15.5x5.4	ALS: 0.5 Kit: 10	5	LED	White <b>Choose 4 of the following:</b> 395 (UV) 470 (Blue) 495 (Cyan) 525 (Green) 850 (IR)	3 CR123	2 to 8	✓	✓	-22° to 122°F (O and S)

Portable Forensic Light Kits Market Survey Report

Vendor	Product	MSRP	Dimensions (inches)	Weight (pounds)	Number of Lights	Bulb Type	Wavelengths (nm)	Battery Type	Battery Runtime (hours)	User Replaceable Battery	AC Power	Temperature Ranges
Tritech Forensics	TRIBRITE 415 Tactical Kit (CK-UVF415)	\$140	ALS: 6.4x1.0x1.5 Kit: 12.1x7.3x5.5	ALS: 0.5 Kit: 3	1	LED	415 (Violet)	Proprietary	3 to 4	✓	✓	-22° to 122°F (O and S)
	TRIBRITE 460 Tactical Kit (CK-UVF460)	\$140	ALS: 6.4x1.0x1.5 Kit: 12.1x7.3x5.5	ALS: 0.5 Kit: 3	1	LED	460 (Blue)	Proprietary	3 to 4	✓	✓	-22° to 122°F (O and S)

Notes:  
<sup>1</sup>Choice of AC or DC powered UV lamp  
<sup>2</sup>Price is dependent on laser wattage selected at time of purchase; 2W, 3W, 5W, 6.25W, or 8W  
<sup>3</sup>Model number is specific to Arrowhead Forensics, a U.S. distributor  
✓—system is equipped with corresponding feature  
ALS—alternate light source  
NP—information not provided  
Bulb Type—light emitting diode (LED); micro discharge lamp (MDL)  
Temperature Ranges—operating (O); storage (S)

Information in the table is based on data gathered from vendors and their websites from September 2013 to July 2014.

## 4. VENDOR CONTACT INFORMATION

Additional information on the portable forensic light kits included in this market survey report can be obtained from the vendors listed in Table 4-1. Additional vendors of portable forensic light kits are also included, as designated by an asterisk (\*).

**Table 4-1. Vendor Contact Information**

Vendor	Phone Number	Website/E-Mail Address
Arrowhead Forensics	(800) 953-3274	<a href="http://www.arrowheadforensics.com">http://www.arrowheadforensics.com</a> info@arrowheadforensics.com
CAO Group Inc.	(801) 256-9287	<a href="http://www.caogroup.com">http://www.caogroup.com</a> info@caogroup.com
Coherent Inc.	(800) 527-3786 (408) 764-4983	<a href="http://www.coherent.com">http://www.coherent.com</a> tech.sales@coherent.com
Foster & Freeman USA	(703) 433-9361 (904) 415-1784	<a href="http://www.fosterfreeman.com">http://www.fosterfreeman.com</a> sales@fosterfreeman.com
Labino	+46 8 83 90 70	<a href="http://labino.com">http://labino.com</a> labino@labino.com
Lumatec	+49 89 742 82 20	<a href="http://www.lumatec.de">http://www.lumatec.de</a> sales@lumatec.de
Rofin Forensics	+61 3 9558 0344	<a href="http://www.rofinforensic.com/au">http://www.rofinforensic.com/au</a> info@rofin.com.au
Sirchie Finger Print Laboratories	(919) 554-2244	<a href="http://www.sirchie.com">http://www.sirchie.com</a> sales@sirchie.com
Spectronics Corporation	(800) 274-8888	<a href="http://www.spectroline.com">http://www.spectroline.com</a> info@spectroline.com
SPEX Forensics*	(800) 657-7739	<a href="http://www.spexforensics.com">http://www.spexforensics.com</a>
Tritech Forensics	(800) 438-7884	<a href="http://tritechforensics.com">http://tritechforensics.com</a> tritech@tritechusa.com

## 5. SUMMARY

This market survey report provides information on more than 50 portable forensic light kits. All of the kits in this market survey report include barrier filter goggles compatible with the wavelengths provided in the kit. Most of the kits feature a 1-year warranty and are battery powered. Technical support is available for all kits for at least 8 hours a day, Monday through Friday. The kits in this market survey report vary in wavelengths provided, size and weight, as well as battery runtime. Very few kits accept only AC power and many can use AC power as a backup to battery power.

Emergency responder agencies that consider purchasing portable forensic light kits should carefully research each kit's overall capabilities and limitations in relation to their agency's operational needs.