Crime-lite® 82

A complete range of high intensity LED light sources for crime scene investigation and forensic laboratory examination

- The highest output handheld forensic light source in its class
- 16x high intensity LEDs provide unsurpassed shadow-free beam quality
- 100% light output, 100% of the time regardless of battery drain

Engineered to meet the needs of the forensic examiner the Crime-lite® 82 range includes ten high intensity light sources from UV to IR.

NEW

Infrared model
UV-Vis-IR camera
Wheeled laboratory cart
Crime-lite® 82 FOR CRIME SCENE INVESTIGATION AND LABORATORY EXAMINATION

Engineered to meet the needs of the forensic examiner the Crime-lite® 82 range includes ten models to suit a wide variety of evidence types.

With a demonstrably high quality of performance and construction the Crime-lite® 82 range stands head and shoulders above its competitors as the premium LED forensic light source.

Product features

- Fitted with 16 high power LEDs
- Constructed from anodised aluminium
- Angled compact heads for ease of use
- Lightweight, high capacity batteries
- Up to 3 hours of operating time on fully charged battery
- Battery charge time only 22 minutes

WHY CHOOSE CRIME-LITE®?

High quality of design and construction

LEDs selected for peak performance and wavelength

100% light output regardless of battery drain

Worldwide product support

High power to weight ratios

Compact and energy efficient
Nine forensic light sources providing intense collimated, shadow-free light that maximises the clarity of evidence. The range includes UV, violet, blue, blue-green, green, orange, red and infrared for detecting blood, body fluids, drugs and fibres at the crime scene as well as for examining chemically treated fingerprints in the laboratory.

A white light model with adjustable intensity is also available for general search and is supplied with red, green and blue slide-on filters to enhance the contrast of evidence found on coloured backgrounds.

Crime-lite® 82S kits are supplied with a complete range of accessories including anti-glare viewing googles and camera lens filters designed to provide maximum optical performance when used alongside high power light sources.

### Crime-lite® 82S

**High intensity forensic light sources for the investigation of serious crime**

<table>
<thead>
<tr>
<th>Output</th>
<th>10% band width</th>
<th>Peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>400-700nm</td>
<td>-</td>
</tr>
<tr>
<td>UV</td>
<td>350-380nm</td>
<td>365nm</td>
</tr>
<tr>
<td>Violet</td>
<td>395-425nm</td>
<td>410nm</td>
</tr>
<tr>
<td>Blue</td>
<td>420-470nm</td>
<td>445nm</td>
</tr>
<tr>
<td>Blue/Green</td>
<td>450-510nm</td>
<td>480nm</td>
</tr>
<tr>
<td>Green</td>
<td>490-560nm</td>
<td>530nm</td>
</tr>
<tr>
<td>Orange</td>
<td>570-610nm</td>
<td>590nm</td>
</tr>
<tr>
<td>Red</td>
<td>600-650nm</td>
<td>625nm</td>
</tr>
<tr>
<td>Infrared</td>
<td>800-900nm</td>
<td>860nm</td>
</tr>
</tbody>
</table>

**LEDs**
- 16 x high efficiency LEDs

**LED Power Output**
- Up to 19W dependent on wavelength

**White LED Output**
- Up to 5280 Lumens

**Runtime**
- Continuous with adaptor

**Battery life**
- 35-180 minutes

**Charge time**
- 22 minutes

**Weight**
- 560g
A high intensity linear light source for illuminating shoe prints, fibres, blood spatter & particulate evidence

The Crime-lite® 82L is a new high intensity forensic light source that provides an alternative beam profile for locating evidence at the crime scene.

Sixteen white LEDs are mounted behind a cylindrical lens to give a wide ‘linear’ light beam that is ideal for detecting surface debris and shoe prints in dust.

Accessories include red, green, blue and yellow clip-on filters to enhance contrast and a telescopic pole which adds convenience for prolonged floor searches.

The Crime-lite® 82L can be either AC powered, for continuous operation, or operated from a battery pack which, when fully charged, will provide an operational time of up to 175 minutes.
**Crime-lite® Applications**

### Fingerprints and Trace Evidence

<table>
<thead>
<tr>
<th>Evidence Type</th>
<th>Crime-lite® 82S</th>
<th>Crime-lite® 82L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood stains</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Blood spatter</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Body bruising &amp; bite marks</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Body fluids</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Bone &amp; tooth fragments</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Hair</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Fibres</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Gunshot residues</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Some drug residues</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Accelerants</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Redwop</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Nanoparticles</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>DFO</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Greenwop</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Rhodamine 6G</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Basic yellow</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Acid yellow</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Ardrox</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Magnetic red powder</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Ninhydrin</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>General mixed debris</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>General contrast search</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Shoeprints &amp; dust marks</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

### Crime-lite® Applications

- **Crime-lite® 82S**
  - **White**
  - **Violet**
  - **Blue/Green**
  - **Green**
  - **Orange**
  - **Infrared**
  - **White**

- **Crime-lite® 82L**
  - **White**
  - **Violet**
  - **Blue/Green**
  - **Green**
  - **Orange**
  - **Infrared**
  - **White**

### Examination Methods

- **UV examination**
  - Visible
  - PolyCyano treated fingerprints
  - UV 350-380nm, no filter

- **Blue examination**
  - Visible
  - Body fluids on colored fabric
  - Blue 420-470nm, 495nm filter

- **Green examination**
  - Visible
  - Fibres detected on office chair
  - Green 490-560nm, 590nm filter

- **IR examination**
  - Visible
  - Dried blood on black fabric
  - IR 800-900nm, IR only filter
Crime-lite® 82 cased kits

Foster + Freeman Crime-lites® are available individually or as cased kits containing all of the accessories required to begin searching for and examining evidence.

Below are a selection of standard kits that meet the requirements of the majority of Crime-lite® users, if you would like to specify your own custom kit please contact our sales office or your local Foster + Freeman agent.

### Crime-lite® light sources included in kit

<table>
<thead>
<tr>
<th>Cased Kits</th>
<th>WHITE</th>
<th>UV</th>
<th>VIOLET</th>
<th>BLUE</th>
<th>BLUE/GREEN</th>
<th>GREEN</th>
<th>ORANGE</th>
<th>RED</th>
<th>82L</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIME-LITE® 82S BASIC SEARCH KIT QCL/82S/UVVB</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRIME-LITE® 82S 6 LIGHT KIT QCL/82S/6KIT</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>CRIME-LITE® 82S 7 LIGHT KIT QCL/82SL/7KIT</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>CRIME-LITE® 82S 8 LIGHT KIT QCL/82S/8KIT</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>COMPLETE CRIME-LITE® 82 KIT QCL/82SL/9KIT</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

**Crime-lite® Kit Accessories**

Included as standard in every cased kit

**VIEWING GOGGLES & CAMERA LENS FILTERS**
- anti-glare viewing goggles.
- anti-glare 62mm camera filters and filter pouch. (other size filters available on request)
- Kits containing a UV light source also include UV safety glasses.
- Kits that include a white light source include blue, green, and red slide-on contrast filters.

**CRIME-LITE® POWER KIT**
- 2 x rechargeable batteries.
- fast battery charger.
- battery adaptor.
- battery pouch with shoulder strap.
- AC adaptor.

**SCENE OF CRIME CASE**
- Either a medium or large SOC case with machined foam cut-outs to accommodate all light sources in kit.
- two detachable belt clips and wrist lanyards.

Crime-lite products are classified to EU safety standard EN62471:2008
Crime-lite® Camera Filters & Goggles

ANTI-GLARE CAMERA FILTERS AND VIEWING GOGGLES
(INCLUDED IN CRIME-LITE 82S CASED SETS)

Crime-lite® 82S anti-glare camera filters and viewing goggles are essential accessories and are required for the examination of fluorescent evidence.

Foster + Freeman camera filters and viewing goggles are manufactured with Schott glass and feature an additional long-pass coating to suppress auto-fluorescent emissions from the filter glass, thus ensuring maximum optical performance with high power light sources.

<table>
<thead>
<tr>
<th>Filter</th>
<th>Pale Yellow GG455</th>
<th>Yellow GG495</th>
<th>Orange OG550</th>
<th>Bright Red OG590</th>
<th>Red RG645</th>
<th>UV GG420</th>
<th>IR Safety</th>
</tr>
</thead>
<tbody>
<tr>
<td>For use with...</td>
<td>Violet Crime-lite</td>
<td>Blue Crime-lite</td>
<td>Blue/Green Crime-lite</td>
<td>Green Crime-lite</td>
<td>Orange Crime-lite</td>
<td>UV Crime-lite</td>
<td>IR Crime-lite</td>
</tr>
<tr>
<td>Wavelength</td>
<td>455nm</td>
<td>495nm</td>
<td>550nm</td>
<td>590nm</td>
<td>645nm</td>
<td>420nm</td>
<td>-</td>
</tr>
<tr>
<td>1% transmission</td>
<td>435nm</td>
<td>476nm</td>
<td>529nm</td>
<td>571nm</td>
<td>624nm</td>
<td>408nm</td>
<td>-</td>
</tr>
</tbody>
</table>

Product Codes

Camera filters | QCL/152 | QCL/153 | QCL/154 | QCL/156 | QCL/82S/017 | QCL/157 | - |
Viewing goggles | QCL/147 | QCL/148 | QCL/149 | QCL/151 | QCL/82S/016 | QCL2/014 | - |

NARROW BAND TRIMMING FILTERS
(INCLUDED IN CRIME-LITE 82S CASED SETS)

Narrow band trimming filters clip-on to the Crime-lite® 82S in order to further reduce the output bandwidth preventing interference from background or substrate fluorescence.

<table>
<thead>
<tr>
<th>Filter</th>
<th>Wavelength</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Violet</td>
<td>410nm</td>
<td>QCL/82S/018</td>
</tr>
<tr>
<td>Blue</td>
<td>448nm</td>
<td>QCL/82S/019</td>
</tr>
<tr>
<td>Blue/Green</td>
<td>475nm</td>
<td>QCL/82S/020</td>
</tr>
<tr>
<td>Green</td>
<td>522nm</td>
<td>QCL/82S/021</td>
</tr>
<tr>
<td>Orange</td>
<td>597nm</td>
<td>QCL/82S/022</td>
</tr>
</tbody>
</table>

EVIDENCE SPECIFIC BANDPASS FILTERS
FOR USE WITH CRIME-LITE 82S BLUE, BLUE/GREEN & GREEN

Bandpass filters isolate a band of wavelength from the total spectrum and have been tailored for use in the detection of specific evidence types.

<table>
<thead>
<tr>
<th>Evidence type</th>
<th>Wavelength</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood</td>
<td>415nm</td>
<td>QCL/222</td>
</tr>
<tr>
<td>Body Fluids</td>
<td>530nm</td>
<td>QCL/223</td>
</tr>
<tr>
<td>Body Fluids</td>
<td>550nm</td>
<td>QCL/224</td>
</tr>
</tbody>
</table>

VIEWING GOGGLES

<table>
<thead>
<tr>
<th>Evidence type</th>
<th>Wavelength</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood</td>
<td>415nm</td>
<td>QCL/219</td>
</tr>
<tr>
<td>Body Fluids</td>
<td>530nm</td>
<td>QCL/220</td>
</tr>
<tr>
<td>Body Fluids</td>
<td>550nm</td>
<td>QCL/221</td>
</tr>
</tbody>
</table>
**Crime-lite® Accessories**

**CRIME-LITE® 82S INFRARED ACCESSORIES**
Evidence being examined under the Crime-lite IR (QCL/82S/IR) is visualised using the IR sensitive camera attachment with live video images being displayed on a PC monitor.

- **5MP UV-Vis-IR multi-spectral camera** QCL/82S/CAM
- **Articulated arm** QCL/82S/025/IR
- **Hands free operation** of Crime-lite 82S
- **Bench or wall mounted, reach 132cm**
- **Internal power and USB cables**
- **Tablet PC Mount** QCL/241
  *Clamps tablet PC to Articulated arm*
- **Tablet PC** QCL/242
  *Touch screen tablet PC*
- **Laboratory Cart** QCL/245
  *Wheeled cart with mounting plate for articulated arm and UPS storage space*
- **Adjustable Laptop Mount** QCL/247
  *For use with Laboratory Cart*
- **UPS** QCL/246
  *Run time 4 hours*

**POWER SUPPLY COMPONENTS**
*ITEMS MARKED WITH † ARE INCLUDED IN CRIME-LITE 82S CASED SETS*

- **Rechargeable battery** (Requires adaptor) QCL/82S/008 †
- **Battery charger** 22 minutes charge time QCL/82S/009 †
- **Vehicle battery charger** 60 minutes charge time QCL/82S/010
- **Battery adaptor** for rechargeable battery QCL/82S/011 †
- **AC adaptor** 90-240V input QCL/80 †
- **Battery pouch** with nylon strap QCL/82S/012 †

**SCENE OF CRIME ACCESSORIES**
*ITEMS MARKED WITH † ARE INCLUDED IN CRIME-LITE 82S CASED SETS*

- **Telescopic pole** Extendable to 880mm QCL/85
- **SOC case - Small** Carry up to 4 Crime-lites QCL/82S/013 †
- **SOC case - Large** Carry up to 9 Crime-lites QCL/82S/014
- **SOC trolley & strap** Carries SOC cases QCL/206
- **Wrist lanyard** Prevents dropping QCL/82S/023 †
- **Extended AC power lead, 3mtr cable** QCL/90

**EVIDENCE VIEWING BOX**
*FOR USE WITH CRIME-LITE 82S LIGHT SOURCES*

- **Crime-lite 82S Viewing Box**
  *Complete ambient light shielding for visual & photographic examination of evidence. Includes slots for camera or viewing goggles.*

  - **Camera not included**
  - **Crime-lite Viewing Box** QCL/215
  - **Basic camera stand** QCL/216
  - **Lens bellows** QCL/217
  - **Lens bellows adaptor** QCL/218

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