

Forensic Full Spectrum Light Source Equipment (Laser & UV-VIS-IR)

--- OR-QG1800

Forensic Full Spectrum Light Source Equipment is designed for the most versatile use in the field or lab environment for illumination and detection of evidence.

Laser light sources can be used to reveal this evidence by either fluorescence or enhanced contrast. Fluorescence occurs when a material absorb light of one color and then re-emits it virtually simultaneously as a different color. A material can be illuminated in the blue or green then viewed with filter goggles that only pass orange or red.

UV-VIS-IR light sources have been used for detection of biological evidences, which can be detected due to their nature characteristic, such as light asorption (blood) or flurescence effect (semen, saliva, urine, vaginal fluids, sweat etc.). And ALS are invaluable for detecting substances at a crime scene/lab such as bruising, hair, fibre, foot prints, fingerprints, stamps, Ninhydrine treated fingerprints, Super glue treated fingerprints, basic yellow 40, stamps, Cyanacrylate and general searching.

WAVELENGTHS (all-in-one unit) :

A. Laser Light Source:

- | | |
|------------------------|---|
| i. green: 532nm±2nm | iv. CSS0: 445nm±2nm & 532nm±2nm |
| ii. blue: 445nm±2nm | v. CSS1: 405nm±2nm & 445nm±2nm |
| iii. purple: 405nm±2nm | vi. CSS2: 405nm±2nm & 442nm±2nm & 532nm±2nm |

B. Visible Light Source:

- | | |
|----------------------|----------------------|
| i. White 6500K (10W) | iv. Orange 605-610nm |
| ii. White 4500K (3W) | v. Green 520-525nm |
| iii. Red 635-640nm | vi. Blue 475-480nm |

C. UV Light:

- | | |
|---------------|----------------|
| i. 415-420nm | iii. 365-370nm |
| ii. 375-380nm | |

D. Infrared light:

- | | |
|---------------|----------------|
| i. 735-740nm | iii. 940-945nm |
| ii. 855-860nm | |



www.lightmobile.com

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Tel: 86-57186987719 Fax: 86-57186431401
Email: hzhl@lightmobile.com

SPECIFICATION:

1. Max. output power: $\geq 12W$
2. Max. power of main engine: $\geq 360W$, Continuous and adjustable output light
3. Power supply: 220VAC or 24VDC battery pack
4. Battery: External lithium iron phosphate battery pack; Capacity: 12Ah, charging voltage: 29.2V
5. Laser output mode: 400 μm multimode fiber, the fiber length: $\geq 2.5m$
6. Laser light beam size: DIA.: $\geq 11cm$ at 0.5m, DIA.: $\geq 25cm$ at 1m
7. LED visible light beam size: DIA.: $\geq 29cm$ at 0.5m, DIA.: $\geq 60cm$ at 1m.
8. Light beam features: uniform light output with spot evenness $\geq 85\%$.
9. Structural feature: All-in-one machine, the shell is moisture proof and shockproof, and the single machine outputs 19 wave bands.

PACKING

- 1* The System Unit
- 1* Tripod
- 10* Laser Protective Glasses
- 5* Laser Protective Camera Lens
- 1* Special Charger
- 1* 24VDC battery pack
- 1* AC power cord
- 1* instruction



Unified Social Credit Code(Business Licence): 91330104736016531K

ISO 9001 Certified



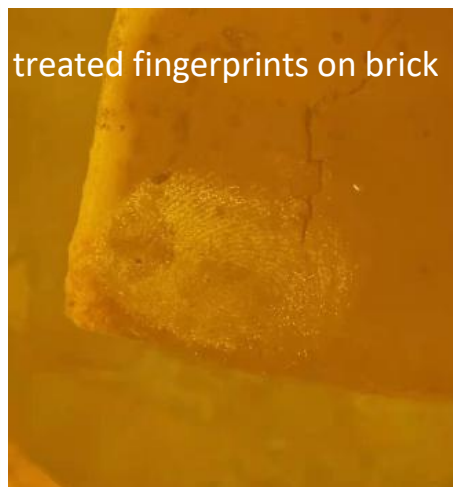
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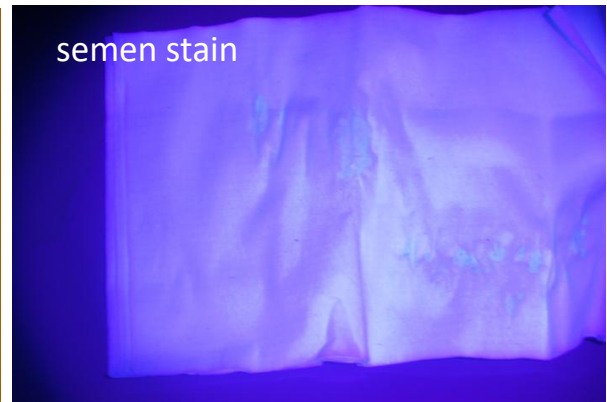
LASER LIGHTS EFFECT:



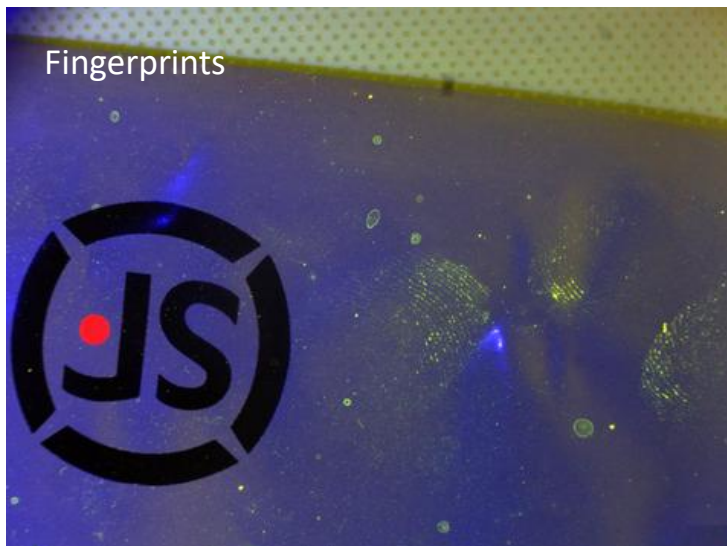
semen stain



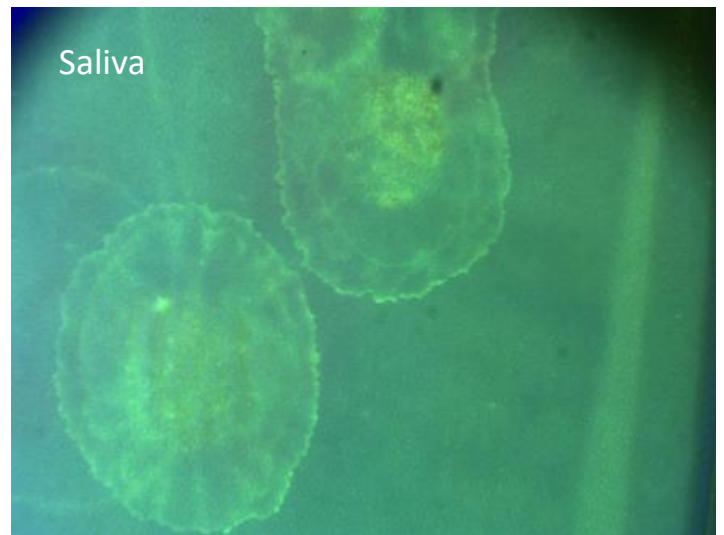
treated fingerprints on brick



semen stain



Fingerprints



Saliva



natural light

Cigarette butts saliva



Laser 445nm



natural light

Seminal Stain



Laser 445nm

saliva on butt

semen stain on cloth

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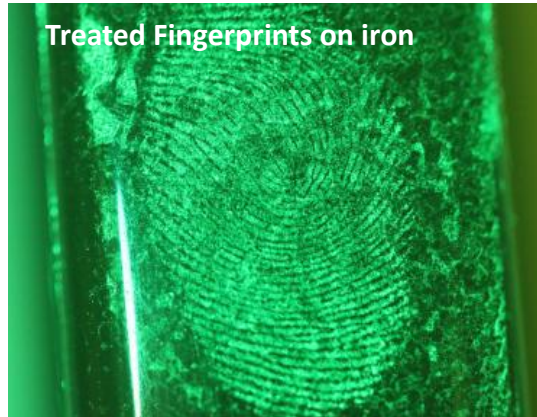
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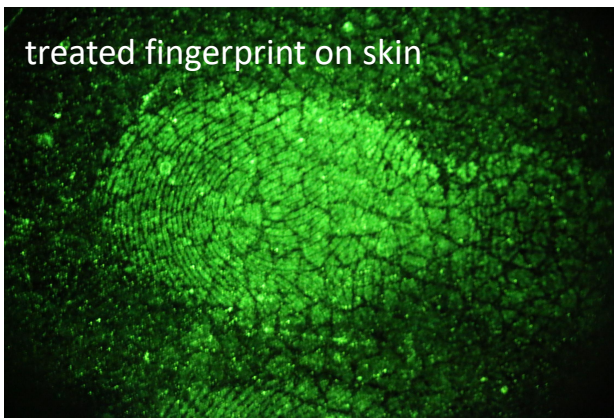
Treated Fingerprints on leaf



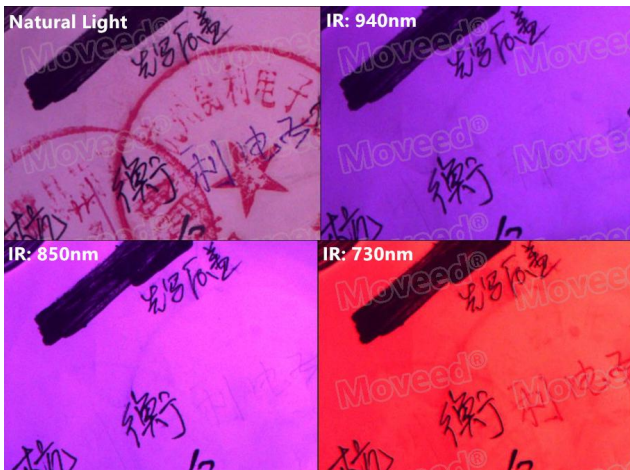
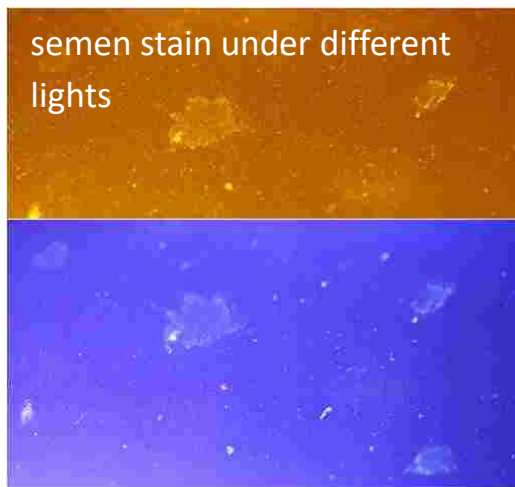
Treated Fingerprints on iron



treated fingerprint on skin

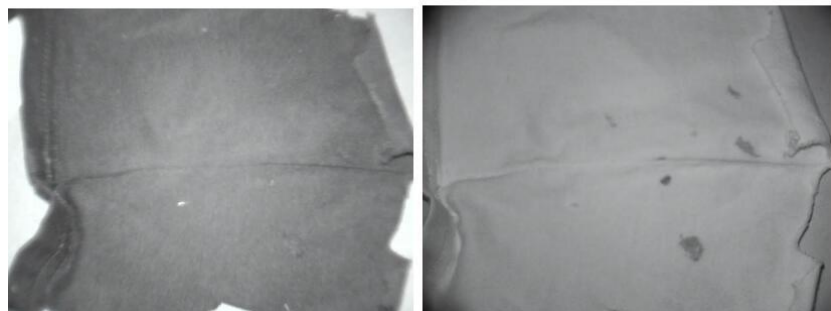


semen stain under different
lights



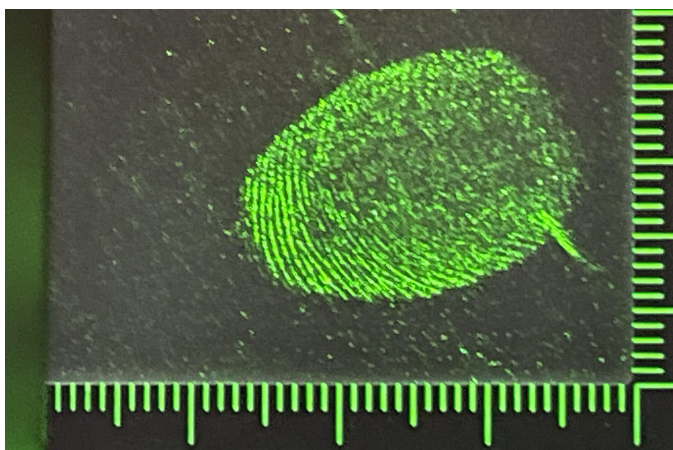
Blood stain under white light

Blood stain under Infrared 850nm



Stamps under white light

Stamps under Infrared 850nm



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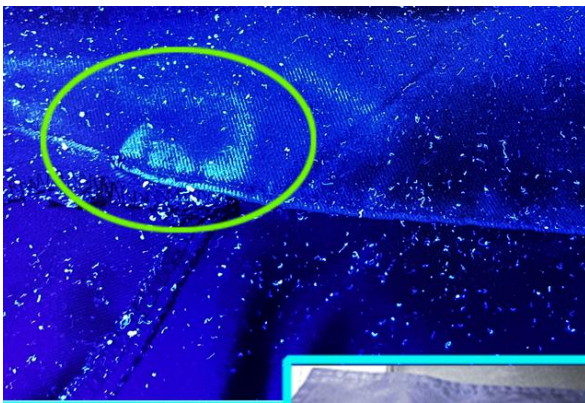
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↑ UV white light →
biological stain
on refrigerator door



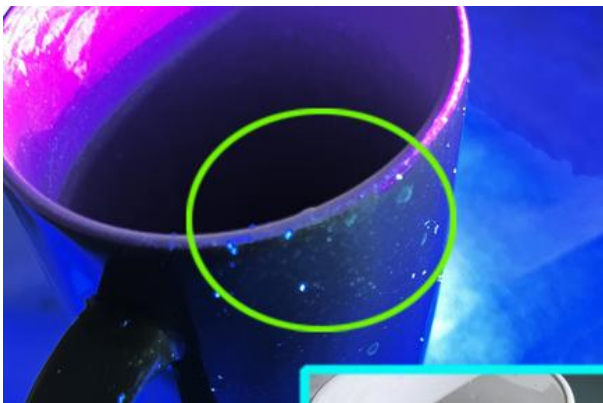
↑ UV white light →
old thermal paper bank receipt



↑ UV white light →
labour suit



↑ UV natural light →
palm prints on wall



↑ UV white light →
porcelain cup

