



FORENSIC LIGHT SOURCES



About West Technology & FoxFury



West Technology is the UK and European distributor for FoxFury Forensic Light Sources

Formed in 1993 as a specialist vacuum engineering company to provide custom-made medium and high vacuum systems, West Technology rapidly developed its business and within a few years established an unrivalled reputation for innovative design and manufacture of a broad range of custom vacuum systems.

In 1996, the company was invited by a leading establishment for forensic research and development to take a fresh look at the vacuum metal deposition (VMD) technique, in light of new process developments and an outdated range of aging VMD systems that could not meet the demands of the modern forensic laboratory. This led to the introduction in 1998 of West Technology's VMD900 system, which quickly became the standard system throughout the UK and established the company in the forensic market.

West Technology's continued commitment to improving their VMD systems, has led to many product innovations, including the launch of the compact VMD560CX in 2009 and most recently, the introduction of the world's first ever bench top VMD system – the VMD360.

As part of the on-going development of our forensic business, West Technology are pleased to announce our appointment as UK and European distributors for FoxFury.



FoxFury, formed in 2003 in Vista, California (USA) has already established itself as one of the leading manufacturers of Forensic Light Sources in the United States. They pride themselves on making unique, high quality and powerful products.

West Technology is committed to using our specialist knowledge of vacuum technology and forensics, to create new, exciting products for use by forensic providers.

West Technology is an ISO9001 accredited company.

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Forensic Light Sources

Crime scenes often contain a range of valuable evidence, including biological fluids, fingermarks, hairs, fibres and firearm evidence. Many of these evidence types are invisible to the naked eye. Forensic Light Sources (FLS) are essential to forensic professionals to help detect evidence, illuminate the crime scene and perform comprehensive examinations.



We offer a range of Forensic Light Sources and high power lasers to help visualise and detect different types of evidence, from bodily fluids and bone/teeth fragments to accelerants and narcotics.

The primary application of a FLS is for enhancing the detection of latent fingermarks. Although fingermark residues are inherently fluorescent when illuminated with UV radiation, the introduction of fluorescent chemical/powder processes greatly increased the types of surfaces from which latent fingermarks could be detected.

When exposed to incoming light of a specific wavelength (from a FLS), energy is absorbed by certain molecules present in treated fingermarks. Some of this absorbed energy is subsequently emitted as light of a different (longer) wavelength. Illuminating a surface with light in the UV, blue, green or yellow region of the spectrum can excite this "fluorescence", which typically results in the emission of light in the yellow, orange, red or infra-red (IR) regions.

Fluorescence examination of crime scenes and recovered exhibits will detect more fingermarks (and other types of forensic evidence) than visual examination alone.

A large portion of the incoming light from a FLS is not absorbed by the treated fingermarks but is scattered or reflected from the surface being examined. Therefore, it is necessary to use filters that transmit only the emitted fluorescence from the treated fingermarks and block all other sources of light.

FoxFury lights have been created to deliver an exceptional lighting experience. The premium lights are built to be portable, durable and used anytime, anywhere, including under water.



Biological fluids like semen, saliva and urine are naturally fluorescent. The use of a FLS offers crime scene personnel a unique method for locating these stains at the crime scene, without having to recover large items such as mattresses and carpets, and even allows the examination of fixed items.

Using an ordinary UV light will reveal biological fluids, but many articles on which you would find them (e.g. clothing and bed sheets) will also glow, hindering evidence detection and imaging. Having a set of FLS with a range of wavelengths available can help eliminate this background interference, revealing the biological stain and leading scene investigators to articles that may need further examination.

The evidence types given here are only a few of the items found in a day-to-day environment that will fluoresce. Numerous other materials and compounds can be detected using FLS.

The FoxFury forensic light range is specifically designed for use by forensic and emergency service professionals, suitable for the most demanding scene conditions. The use of high-intensity LEDs provide more than adequate illumination to allow for the prompt search, detection and examination of forensic evidence.

Portable Forensic Laser

- ▶ Affordable
- ▶ Powerful
- ▶ Cordless

The compact blue laser provides up to 9 W of 445 nm light for forensic searches up to 9 m way. The laser's incredible power and portability enables it to perform faster, more effective searches at crime scenes at much greater distances compared to standard Forensic Light Sources.

Affordable and Compact

- ▶ Dimensions (L280 mm x W50 mm)
- ▶ Extremely powerful – 2 W / 5 W / 9 W
- ▶ All the benefits of traditional lasers but at a much more affordable price
- ▶ Lightweight – 1.9 kg
- ▶ Cordless for quick and easy searches
- ▶ Requires no maintenance or calibration

Flexible Operation

- ▶ Can reveal a range of biological and trace evidence including; bodily fluids, bone, blood stains, hairs and fibres
- ▶ Emits 445 nm accurate to ± 3 nm
- ▶ Speed up searches – detect evidence 9 m away
- ▶ Fully submersible to 1 m
- ▶ Operates in extreme weather -10 to 40 °C
- ▶ Battery lasts for up to 2.5 hrs

Innovative Design

- ▶ Instant start-up & cool down
- ▶ Operates silently
- ▶ Hard anodized aluminium housing
- ▶ Multiple intensities
- ▶ Anti-roll head
- ▶ Li-ion battery can be fully recharged in 4 hrs



2W



5W



9W

Key Features

▶ Highly Durable
Made from high quality aluminium – can withstand physical impact and is suitable for use underwater

▶ Cable Free & Handheld
Unlike other box lasers, this can be easily held in one hand allowing multi-tasking

▶ Anti-Roll Design
Rubber strips on the light head prevent the laser from rolling off surfaces

▶ Battery or Direct Drive
The laser can run on a re-chargeable Li-ion battery system or driven directly by an AC source

▶ Multiple Intensities
Power can be adjusted to preserve battery life or increase output for faster searches

▶ Safety Interlock
To prevent accidental operation, a safety interlock is required to activate the laser



Hammerhead Forensic Lights

- ▶ Durable
- ▶ Extremely Lightweight
- ▶ Rechargeable

The Hammerhead LED Forensic Light Source is ideal for crime scene searches up to 3 m away. Each light weighs just 245 g and features a diffused lens for shadow-free light distribution, accurate to ± 3 nm.

They come in 7 single wavelengths (White, UV, Blue, Cyan, Green, and IR) as well as 4 dual series lights.

Affordable and Compact

- ▶ Dimensions (L168 mm x W38 mm)
- ▶ Powerful dual LED – 4.5 W output
- ▶ Extremely lightweight – 245 g
- ▶ Cost effective
- ▶ Cordless for quick and easy searches
- ▶ Battery can last for up to 6 hrs
- ▶ Available individually or as a kit

Flexible Operation

- ▶ Can reveal a range of biological and trace evidence including; bodily fluids, bone, blood stains, hairs and fibres
- ▶ Wavelength accurate to ± 3 nm
- ▶ Speed up searches – detect evidence 3 m away
- ▶ Fully submersible to 3 m
- ▶ Operates in extreme weather – 10 to 149 °C (Fire resistant)

Innovative Design

- ▶ Innovative Design
- ▶ Instant start-up & cool down
- ▶ Operates silently
- ▶ Hard anodized aluminium housing
- ▶ Multiple intensities
- ▶ Rectangular anti-roll head
- ▶ Runs on 3x CR123 Lithium batteries or 2x rechargeable RCR123 Li-ion batteries



White



UV 350-395 nm



Blue 420-470 nm



Cyan 450-495 nm

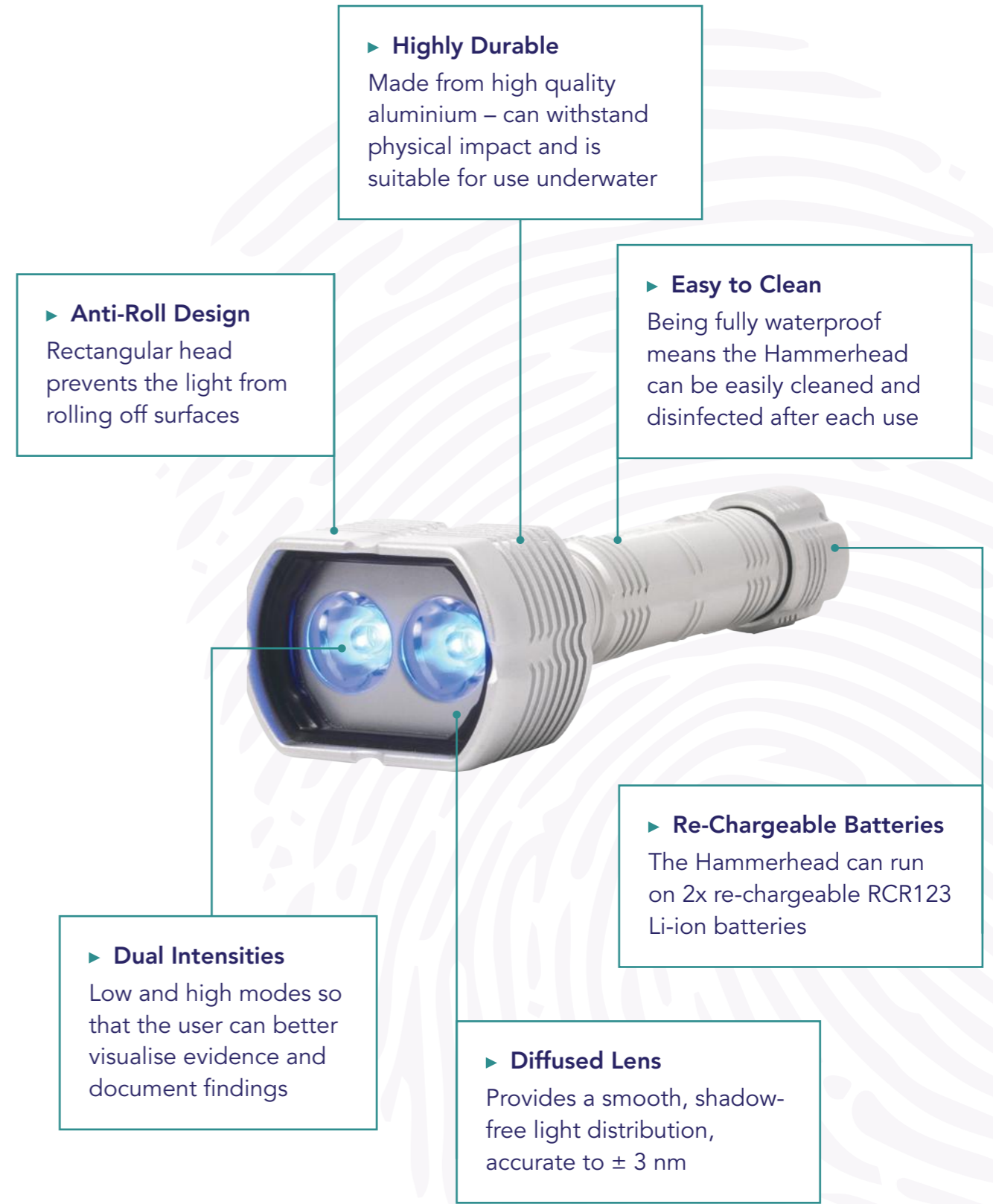


Green 495-535 nm



Infrared 850 nm

Key Features



Crime Scene Floodlights

- ▶ Cordless
- ▶ Lightweight
- ▶ Quick to Deploy

The lightweight, rechargeable Nomad LED floodlights can be deployed in 20 seconds and can illuminate the crime scene for up to 24 hrs. The self-contained lights are weather proof and can be fully submerged in water. Nomads are available in a range of different wavelengths (White, UV, Blue, Cyan, Green, and IR) to allow quick forensic searches.

Nomad Prime

- ▶ 4,000 Lumens
- ▶ Lightweight – 8 kg
- ▶ Battery can last for up to 24 hrs
- ▶ 20 seconds deployment
- ▶ 4 Modes – low, medium, high and strobe
- ▶ 120° Area light or 8° spotlight
- ▶ Extended height 2.4 m

Nomad 360

- ▶ 7,000 Lumens
- ▶ 360° / 120° Area light or 12° spotlight
- ▶ Deploys in seconds
- ▶ Extended height 2.4 m
- ▶ Weighs 11 kg
- ▶ All weather and waterproof

Nomad Transformer

- ▶ 14,000 Lumens
- ▶ Operates silently
- ▶ Extended height 3.8 m
- ▶ Ni-MH rechargeable battery system
- ▶ 60 seconds deployment
- ▶ 27.9 kg – comes with carry case
- ▶ No warm up or cool down required



Key Features

▶ 3 Lights in 1

Converts from an area light to spotlight to 360° scene light in seconds

▶ Adjustable Height

Telescopic head extends up to 3.8 m tall to deliver overhead lighting that does not blind the user

▶ Rechargeable Battery

Li-ion battery system can run up to 24 hrs and can be run/charged from an AC/DC power source or vehicle

▶ Adjustable Tripod

Easy deployment on uneven terrain. In severe wind, a D-ring at the base of the unit allows a weight to be attached

▶ Multiple Intensities

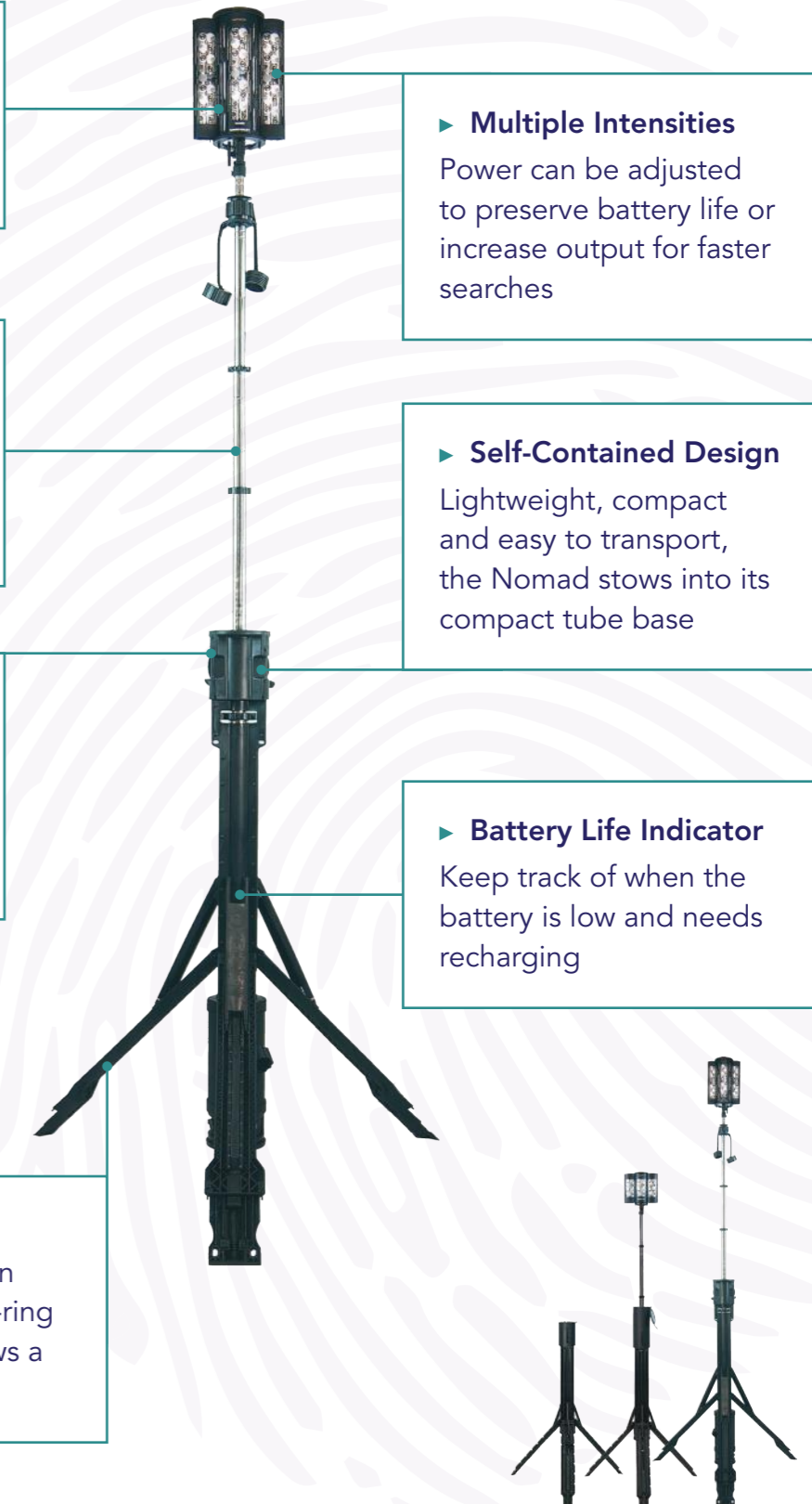
Power can be adjusted to preserve battery life or increase output for faster searches

▶ Self-Contained Design

Lightweight, compact and easy to transport, the Nomad stows into its compact tube base

▶ Battery Life Indicator

Keep track of when the battery is low and needs recharging



Forensic Light Sources



MF

Powerful all-in-one LED light source

Multi wavelength LED FLS for searches up to 6 m away. Powerful and rechargeable, the MF comes equipped with blue (470 nm), cyan (495 nm), green (525 nm), IR (850 nm) and white LEDs. Its power and portability enables it to perform faster searches at greater distances.

Also available in the following single wavelengths: UV 365 nm, blue 470 nm, cyan 495 nm, green 525 nm and IR 850 nm.



Scout

Compact FLS for close range inspections

Pocket sized LED light source for quick searches up to 1 m away. This light is waterproof, impact resistant and is accurate to ± 3 nm. Runs on 3 AAA batteries and can be worn using the clip provided for easy accessibility.

Available in the following single wavelengths: UV 395 nm, blue 450/470 nm, cyan 495 nm, green 525 nm and IR 850 nm.



Rook

Lightweight light source for lab and field use

Extremely lightweight and portable LED FLS for searches up to 2.6 m away. A diffuser lens provides a smooth, shadow-free light distribution. The Rook has a square anti-roll head and can be used underwater. It runs on either two lithium batteries or one rechargeable battery.

Available in the following single and dual wavelengths: UV 365 nm, (dual) UV 380 + 395 nm, blue 470 nm and (dual) blue 450 + 470 nm.



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