



# Rogue DNA UV Highlighter Bars & Cubes

## See Ultra-Violet Content in Broad Daylight

One of the approaches frequently used to make secure documents difficult to counterfeit is to impregnate them with features that are only visible under ultra-violet (UV) light. The light source used is typically a fragile fluorescent tube. The issue with these devices is that the light is relatively dim, making the UV difficult or impossible to see. In addition, because they are quite substantial, in many cases they are impractical to use if desk space is limited or if portability is required.

To address this, Rogue DNA has introduced unique solid state LED-based UV lights offering the following:

- Five times the luminosity of a conventional UV light – works in daylight or a normal office environment
- High reliability
- More concentrated light
- Small size – no desk space required
- Light and portable
- Low power consumption with a choice of power sources



Rogue DNA UV Bar

The unit uses a highly-advanced UV LED together with a white light LED and switch, mounted in a bar about 15 cm, or 6 inches, long. It can be powered through a 5v USB, 12v car socket, 110/220v AC power supply, or through a belt-mounted rechargeable battery pack.



Use in Normal Office Lighting

A key feature of the Highlighter is that it need take no desk space – it can be handheld or attached to the underside of a computer screen, cash drawer, counter, dashboard, etc. As an alternative to the white light (which can be used to check watermarks) an infra-red LED is available.

The bar is well-proven – around 2000 are already in use. No training is required.

### Applications

These include the detection of UV in secure documents such as passports, driver's licenses, credit cards, etc, as well as currency authentication at banks, retail outlets, casinos, and sports stadiums. The bars have already been installed in police cruisers. They can be integrated into printers such as passport printers to ensure that any UV content has been printed correctly.

## Features of Rogue DNA UV Detection

- Around five times brighter than conventional UV lamps – use in daylight or normal office lighting
- No desk space is required. The bar is designed to be handheld or attached below a computer screen, drawer, shelf, dashboard, etc.
- Uses ICAO standard frequencies. UV frequency is 365nm, while the optional IR is 940nm
- Low voltage, powered through a USB 2.0 port, 12v car socket, rechargeable battery pack (6 hour), or 110/220v AC
- Simple to install and use – just plug it in. No user training is required
- Bar dimensions 157 x 33 x 25mm (6¼" x 1¼" x 1")
- Still brighter UV lights are available –
  - The UV Cube, at around twice the luminosity
  - Double and Triple Cubes, primarily for forensic use
- Can be packaged in a unique complete solution with RDNA document authentication scanners



The Still More Powerful UV Cube

## Ultimate Counterfeit Detection

While the Highlighters are designed to detect the presence of UV responsive features, Rogue DNA's patent-pending RDNA document authentication technology authenticates the actual pattern. RDNA records the unique three-dimensional composition at the detailed level of pre-defined areas of each piece of material. If a document is copied, the copy will be on a different piece of material, with a different composition. If the writing on the document is changed, the ink pattern will be different and this too will be detected.

The Highlighters and RDNA complement each other – the UV bars and Cubes confirm the presence of UV in a document, while RDNA goes further by confirming that the pattern of the UV content is the same as when the document was originally produced.

## About Rogue DNA

Rogue DNA Inc. is a private Canadian company with its head office in Vancouver, British Columbia. RDNA's management team is comprised of seasoned professionals with substantial combined experience in the security industry, security applications, imaging technologies, biometrics, information technology, and international business.

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