

LED Infrared lighting technology

UVIScan[®] offers you the world's leading technology in Under Vehicle Inspection Systems. Our unique technology offers many advantages due to the use of LED infrared lighting, such as the best possible image quality, high contrast images, long life, low power consumption, and, contrary to halogen lighting, invisible to the "audience".

Advantages of infrared LED's:

1. Infrared LED illumination will provide you with the best possible quality of Under Vehicle Inspection System (UVIS) images, and offer you much better high-contrast images than halogen lighting.
2. The scanner lighting with infrared LED's is invisible to the human eye. The Under Vehicle Inspection System (UVIS) should not attract any unnecessary attention to possible terrorists, criminals, smugglers, or unwanted intruders. The UVIS should not attract attention to snipers who could target the visual lighting, especially during the night time.
3. Infrared LEDs have a much lower power consumption and a much longer life than halogen lights. Infrared LED's are far less vulnerable to vibration and/or impact. Halogen lamps tend to fail quickly under vibration and/or impact.
4. Halogen lamps are usually operated with alternating current. As a result, the 50 or 60 Hz system frequency is visible in the image as streaks.
5. Due to the much higher output (> 400W) required with halogen lamps, the transformer for voltage conversion is either located in the housing, which means that 220V AC must be installed to the scanning unit, or the transformer is located in the work station, in which case a great deal of current must be installed to the scanning unit.
6. Our **UVIScan**[®] system is not sensitive to sunlight. Our technology includes a daylight band illumination filter in order to suppress the ambient light. When using white halogen light, this is not possible. Under Vehicle Inspection Systems (UVIS) with halogen lighting are therefore much more sensitive to sunlight. This can be very troublesome in daily use, as the images are quickly overexposed.