

Xenopus Electronix, LLC -LED Flashlight Application Matrix

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www.UVflashlights.com

Color Wavelength	UV					Blue	Red used	IR
	365nm	380nm	395nm	395nm xLamp	410nm	465nm xLamp	with White 630nm	850-980nm
Application								
Surveillance (with IR sensitive CCD camera)								
Night vision goggles								
IR fluoresence								
IR Document analysis								
BloodTracking for hunters and bowhunters (*)								
Bioluminescence								
Curing (requiring 465nm)								
Curing (requiring 395-400nm)								
Fingerprints (dusted with Redwop etc.)								
Blood (by absorbtion) (**)								
Scorpion Hunting			Good	Best				
Anqitue glass (uranium glass, vasceline glass)								
Forged document dectection								
A/C coolant leak detection (using dye)			Good	Best				
Carpet inspection		Good		Best				
Bathroom inspection		Best						
Animal urine								
Human urine								
Arson Investigation		Flashlights		Lanterns				
Semen								
Hotel room inspection								
Mineral Hunting (diamonds, etc.)								
Salmonella and Shigella bacteria detection (***)								
Contaminate inspection (clean environment)								
Drivers licence UV markings	Best							
Dye penetrant inspection (NDI/NDT)								
Magnetic surface analysis								
Counterfeit currency detection								
UV Curing (requiring 365nm)								

Application Notes:

Currency detection possible with several UV wavelengths, but ONLY 365nm lights up the \$100 bill strip RED as it should be.

(*) Donates optical tracking by reflection (blood flashes back red, not black).

(**) Closest to the Soret Band for hemo. Absorbtion, blood appears Black.

(***) Denotes to be verified