

CRIME SCENE TOOLS - 2017 LED Flashlight Application Matrix

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Color Wavelength	UV			Royal Blue	Blue	Green	Red used	Deep Red	IR
	365nm	385nm	405nm	455-460nm	465-485nm		with greer	670nm	850-980nm
	Nichia	Nichia	Nichia	Cree	Cree		Cree	Cree	various
Application							(patented)		
Surveillance (with IR sensitive CCD camera)									
Night vision goggles									
IR fluorescence									
IR Document analysis									
GSR on fabric									
BloodTracking for hunters and bowhunters (*)									
Pain therapy									
Bioluminescence									
Curing (requiring 465nm)									
Curing (requiring 365-400nm)									
Fingerprints (dusted with Redwop etc.)									
Blood (by absorbtion) (**)									
Drum filter inspection									
Paint coating inspection									
Scorpion Hunting									
Anqitue glass (uranium glass, vasceline glass)									
Document inspection	Best	Good							
Currency inspection	Best	Good							
Forged document dectection									
A/C coolant leak detection (using dye)									
Carpet inspection		Best							
Bathroom inspection		Best							
Animal urine	Specialized	Typical							
Human urine				If on bedsheets etc.					
Arson Investigation	Best	Good							
Semen				If on bedsheets etc.					
Hotel room inspection									
Mineral Hunting (diamonds, etc.)									
Salmonella and Shigella bacteria detection (***)									
Oranges spoiled by frost (when still on tree)									
Contaminate inspection (clean environment)									
Drivers licence UV markings	Best								
Dye penetrant inspection (NDI/NDT)	365nm								
Magnetic surface analysis	365nm								
Counterfeit currency detection	365nm								
UV Curing (requiring 365nm)	365nm								

Application Notes:

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

(*) 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