

Xenopus Electronix, LLC - LED Flashlight Application Matrix

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www.UVflashlights.com

| Color Wavelength | UV | | | | Blue 455-465nm xLamp | Red used with White 630-660nm | IR 850-980nm |
|--|-------------|-------------|-------------|-------|----------------------------|-------------------------------------|-----------------|
| | 365nm | 380nm | 390nm | 405nm | | | |
| Application | | | | | | | |
| Surveillance (with IR sensitive CCD camera) | | | | | | | Dark Red |
| Night vision goggles | | | | | | | Dark Red |
| IR fluorescence | | | | | | | Dark Red |
| IR Document analysis | | | | | | | Dark Red |
| BloodTracking for hunters and bowhunters (*) | | | | | | Red | |
| Pain therapy | | | | | | Red | |
| Bioluminescence | | | | | Blue | | |
| Curing (requiring 465nm) | | | | | Blue | | |
| Curing (requiring 395-400nm) | | | Dark Purple | | | | |
| Fingerprints (dusted with Redwop etc.) | | | Dark Purple | | Blue | | |
| Blood (by absorbtion) (**) | | | Dark Purple | Blue | Blue | | |
| Drum filter inspection | | | Dark Purple | Blue | Blue | | |
| Paint coating inspection | | | | Blue | | | |
| Scorpion Hunting | | | Best | | | | |
| Anqite glass (uranium glass, vasceline glass) | | Dark Purple | Dark Purple | | | | |
| Document inspection | Best | Good | | | | | |
| Currency inspection | Best | Good | | | | | |
| Forged document dectection | | | | | | | |
| A/C coolant leak detection (using dye) | | | Best | | | | |
| Carpet inspection | | Good | Best | | | | |
| Bathroom inspection | | Best | Good | | | | |
| Animal urine | Dark Purple | | | | | | |
| Human urine | | Dark Purple | | | Blue | | |
| Arson Investigation | Dark Purple | Flashlights | Lanterns | | | | |
| Semen | Dark Purple | | | | Blue | | |
| Hotel room inspection | | Dark Purple | Dark Purple | | | | |
| Mineral Hunting (diamonds, etc.) | | Dark Purple | | | | | |
| Salmonella and Shigella bacteria detection (***) | | Dark Purple | | | | | |
| Contaminante inspection (clean environment) | | Dark Purple | | | | | |
| Drivers licence UV markings | Best | | | | | | |
| Dye penetrant inspection (NDI/NDT) | Dark Purple | | | | | | |
| Magnetic surface analysis | Dark Purple | | | | | | |
| Counterfeit currency detection | Dark Purple | | | | | | |
| UV Curing (requiring 365nm) | Dark Purple | | | | | | |

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