



Recommended Light and Filter Combinations

Light \ Filter	Sample
455nm Blue \ 550 nm Orange	Semen, saliva, biological fluids
400nm Violet \ 550nm Orange	Semen blood mixtures (semen fluoresces, blood shows up dark as it quenches), blood on dark clothing where IR has difficulty
850nm NIR \ LP*830nm NIR	Blood on dark substrates, also potentially useful for imaging tattoos and bruising
400nm Violet \ 400nm Clear	Blood on dark substrates or fluorescent (where IR has difficulty)
GSR:	
455nm Blue \ 610nm Red	Fluorescent component of GSR deposits will fluoresce and allow optical separation from blood spatter. Also may cause particles to fluoresce through thin layers of blood soaked clothing. Works best on dark materials.
850nm NIR \ LP*830nm NIR	May pick up burned powder and vaporous lead deposits, very useful for dark fabric or patterned clothing. Can allow imaging of wad slap from shotgun at close range.
FINGERPRINTS:	
365nm UV \ any filter	The LSV2 meets the SWGFAST imaging requirement at a field of view of 1.75 inches or less.
400nm Violet \ any filter	
455nm Blue \ any filter	
Other Applications:	
850nm NIR \ LP*830nm NIR	View veins, tattoos, bite marks through skin regardless of skin pigmentation.
400nm Violet \ 550nm Orange	Some Gemstones (diamonds, garnets, for example) have naturally occurring fluorescence in the uv/violet light region