

ULTRALITE ALS

Applications: Wavelengths and Uses

UltraLite ALS Forensic Lights	Dominant Output WaveLength	Maximum Light Intensity	Forensic Goggles and Filters	Forensic Application
UltraLite UV Magnum Head 200-00027	405 nm	650 mW	Amber and Yellow forensic goggles and filters	Volatile hydrocarbons and accelerant residues, explosives' wrappings, gun shot residue; Subcutaneous injuries and wounds on living and deceased bodies, bruising, bite marks, blood spatter, fingerprints, and fibers,
UltrLite BMT Light Head 200-00021	450 nm	1000 mW	Amber forensic goggles and filters	Universal evidence & crime scene processing; body fluids (semen, urine, saliva, sweat,) biological stains, hair, fibers and latent fingerprints
UltraLite Green Light Head 200-00023	525 nm	150 lumens	Amber and Red forensic goggles and filters	Fingerprints developed with cyanoacrylate (Superglue), and fingerprint dyes such as rhodamine 6G and DFO; fibers
UltraLite Yellow Light Head 200-00025	590 nm	160 lumens	Red forensic goggles and filters	Fingerprints developed with ninhydrin; fiber evidence, and altered/questioned documents, the chemicals in the ink will show variations
UltraLite Red Light Head 200-00024	630 nm	160 lumens	None or Red forensic goggles and filters	Fingerprints developed with ninhydrin; altered/questioned documents, the chemicals in the ink will show variations; background reduction
UltraLite White Light Head 200-00026	400 – 750 nm	100 lumens	None or Yellow forensic goggles and filters	General crime scene search and illumination, oblique lighting techniques: hair, fiber and fingerprint detection

This chart is intended as a guideline in the use of the UltraLite light heads and the goggles or filters for various applications. The BMT head was specifically designed to address the need of crime scene investigators to process a general crime scene as quickly as possible and to identify the largest amount of material of evidentiary value. If a particular investigation or crime scene requires more specialized processing or the initial crime scene search with the BMT light reveals material that could be processed in more detail with other wavelengths the UltraLite ALS provides the capability to apply the appropriate light sources for specialized processing.

