

Pretreatment Of Latent Prints For Laser Development

REFERENCE: Menzel ER: Pretreatment of latent prints for laser development; Forensic Sci Rev 1:43; 1989.

ABSTRACT: The pretreatment procedures for laser detection of latent fingerprints is reviewed. The general features of laser detection and the operational aspects of the examination of physical evidence for laser fingerprint detection are enumerated in the initial sections. The literature review is divided into various pretreatment approaches. Cited studies prior to 1981 are primarily concerned with the demonstration of the viability of laser fingerprint detection, whereas work post-1981 addresses issues of compatibility with the traditional methods of fingerprint development, examination of difficult surfaces, and the routine implementation of laser detection by law enforcement agencies. Related topics of research, review articles, conference reports, case examinations, the research support climate, and future trends are also briefly addressed.

KEY WORDS: Benzo(f)ninhydrin, criminalistics, cyanoacrylate ester, dusting, dye staining, fingerprints, fluorescence, lasers, 5-methoxyninhydrin, ninhydrin, rhodamine 6G, time-resolved imaging, zinc chloride.