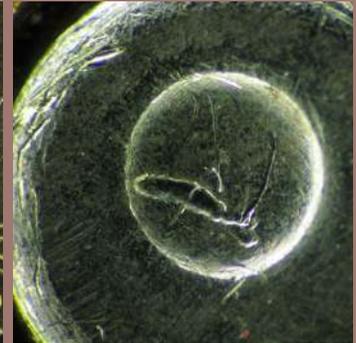
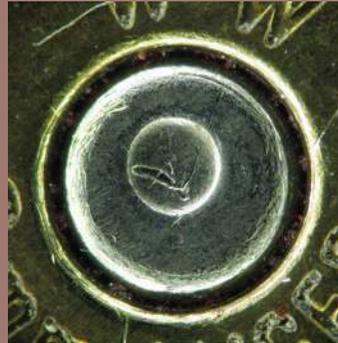
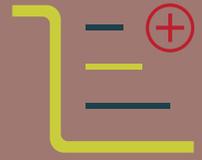


APPLICATION NOTE FORENSIC



BULLET CASE ANALYSIS

AVOIDING REFLECTIONS AND COLOUR FRINGES ON METALLIC SURFACES

CONTRASTING DENTS AND SCRATCHES ON SURFACE STRUCTURES



In order to accurately link a bullet to a gun, it is crucial to produce images of conclusive evidence to the relevant authorities. L.E.S.S. lighting systems are the perfect illumination tools to highlight scratches and marks on metal surfaces.

FEATURES OF L.E.S.S. LIGHTING SYSTEMS APPLIED.

- Bright and Darkfield ring lights simultaneously assembled on the same microscope
- Easy adjustment of working distance
- Uniform and diffuse illumination with neutral white light (5400 °K)
- Avoidance of reflections and colour fringes on metallic surfaces
- Free view and easy access to the specimen
- No heat dissipation from the ring lights



APPLICATION

Fig.1 has been taken with the L.E.S.S. Brightfield. It displays an overview of the sample, documenting the entire bottom plate of the bullet case.

Fig.2 has been taken with the L.E.S.S. Darkfield illumination. In this low angle illumination configuration, marks of the firing pin on the primer pocket

are revealed by high, sharp contrasts.

Fig.3 has been taken with the same lighting configuration as Fig.2, with a higher microscope magnification: even micro scratches and dents of the weapons fire pin are clearly visible.

Positioning the Darkfield at different working distances easily allows to adapt the illumination to highlight the important marks on the surface.



Fig.1
Bullet case lit by L.E.S.S. Brightfield

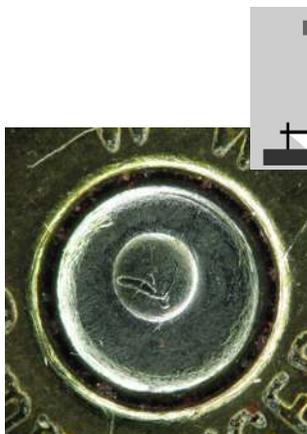


Fig.2
Bullet case close-up lit by L.E.S.S. Darkfield



Fig.3
Bullet case details lit by L.E.S.S. Darkfield

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