

Ultimate 08 holographic recording material

Product description	Ultimate 08nm is a low speed and very high resolution holographic silver halide photo emulsion which has been designed to meet most requirements of holographers. The grain is so fine (08nm) that any visible wavelength can be recorded inside without any diffusion. Despite the fine grain, the sensitivity is high, higher than any concurrent material with comparable grain size. The material can be factory sensitized to any laser line, while using a bright safe light in the laboratory, for a comfortable work. Both transmission and reflection holograms can be recorded, with a perfect noise free rendition. Both lasers continuous and pulsed can be used on this material. The diffraction efficiency is high, even for Denisyuk holography or set-up with poor Object/Ref ratio(10:1).
Applications	Any image hologram when the best quality is needed.
Color Sensitivity	any visible wavelength, depending the dye used
Grain size	08nm
Resolution	>10000 lines/mm
Recommended Exposure Energy	150 μ J/cm ² (minimum) 200 μ J/cm ² (for standart hologram) 300 μ J/cm ² (for mastering with wider bandwidth)
Diffraction efficiency	Up to 98% (mirrors)
Spectral sensitivity	specialized dyes blue range 440-480nm/ blue- green range 440-540nm / red range 610-660nm /deep red range 660-700nm /
Base	glass plates (3mm) - triacetate 190 μ m
Preswelling Agent	70nm pre swelling as standard on red sensitive material. Other values on request. 70 means that the replay hologram will be shifted in color, 70nm lower than the laser used. As example a record with a red laser like HeNe(633nm) will give a final hologram with a yellow-green color(560nm)-
Laser Suitability: (we have tested our material with these lasers)	Laser diodes: 639-700nm, Ruby: 694nm , HeNe : 633nm Krypton: 647, 676 nm Nd-yag : 532nm Argon:457,476,488,514nm DPSS 473nm , DPSS 457nm, HeCd 442nm
Safe Light	Depending the dye you use. Green LED for red sensitive materials - High power Red LED for red sensitive materials
Recommended Processing Chemicals	Developer: Ultimate safe (20°C -68°F- up to 6minutes) wash Bleach : Ultimate safe (20°C until film clears) wash Final rince with some drops of wetting agent (photoflo), then vertical drying
handling recommendations	Use gloves when handling film to avoid finger prints. Use protection gloves for glass plates, they are with cut edges
Shelf Life	More than 2 years at 4°C
Storage	in a fridge, in a closed box at 4°C

**Use
Recommendation**

Transfer the plates /films you plan to use for the day, in a box and place it in the recording room at least one hour before shooting, for temperature stabilisation