

RED SENSITIVE HOLOGRAPHIC FILM

ILFORD SP737T

ILFORD SP737T is a film for holography which has an extremely fine grain red sensitive emulsion, giving high resolution (greater than 5000 line pairs/mm), high contrast and low scatter. It is designed for use with any laser emitting red light: helium-neon (633nm), krypton (647nm) or pulsed ruby (694nm).

The emulsion is coated on a 0.18mm (0.007 inch) triacetate base, and has a supercoat to protect the emulsion from abrasion and damage.

Handling



The short side of SP737T is notched to indicate the emulsion surface. The emulsion faces the user when the film is held in the position shown. For ease of handling and added protection, the film is interleaved with paper. Normal handling precautions should be taken to avoid abrasion damage to the film, especially when wet.

Storage

Store ILFORD SP737T film in a cool dry area, preferably below 20°C at approximately 50% relative humidity. Film stored for six months or longer must be kept at a reasonably constant temperature not exceeding 20°C.

To avoid condensation, film which has been stored in a refrigerator should be left for not less than two hours at room temperature before use.

Safelight recommendation

Use an ILFORD 916 (dark green) safelight filter illuminated by a 15 watt bulb. The distance between the film surface and the safelight should be at least 1.2 metres (4 feet).

Exposure

SP737T film has an exposure latitude of 10-250uJ cm⁻², and users should work within this range. Optimum exposure will depend on the laser being used, and whether a transmission or reflection hologram is being made. Carry out a range of test exposures to find the best exposure for the exposing and processing system in use.

Processing

Good results can be obtained with SP737T over a wide range of developer and bleach conditions, but for best results the silver density after development should be less than 3 for reflection holograms, and less than 1.5 for transmission holograms. More detailed advice on processing can be obtained from your local ILFORD selling company.

Washing

After bleaching, wash SP737T film for 3 minutes in running water. For rapid and uniform drying add 5ml/litre of ILFORD ILFOTOL wetting agent to the final rinse water.

Drying

After washing, the film should be carefully
squeegeed to remove excess water, and then
dried in warm air at 30-50°C.

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