

ILFORD

FACT SHEET

WHAT IS ILFORD SP737T FILM?

SP737T is a new red sensitive holographic film designed to show good performance under normal studio conditions.

It is specially useful for spread beam exposures with a Helium Neon laser where high sensitivity combined with wide exposure latitude is required.

The emulsion used for SP737T has an intrinsically high optical clarity to reduce noise and scatter effects without using antiscatter dyes.

The emulsion also incorporates the ILFORD BIPS factor (Built In Pre Swell) thus rendering preswelling of the emulsion unnecessary in most cases.

The film is particularly useful when used in conjunction with ILFORD recommended room temperature processing since this offers a non-hazardous system for use in teaching environments.

Product Description:

Layer Thickness: 5 microns emulsion (+2 micron gelatin supercoat)

BIPS factor: 8.8% (equivalent to 633 --> 577 nm or 694 --> 633nm)

Emulsion sensitivity: 25-250 u J cm⁻² (for phase (bleached) holograms)
10-100 u J cm⁻² (for amplitude (unbleached) holograms)

Optical transmission: (At peak density) 80%

Base Type: Triacetate

Base Thickness: 198 microns (8 mil)

Formats available:

4 x 5"	(50 sheets per box)
8 x 10"	(25 sheets per box)
12 x 16"	(25 sheets per box)
20 x 24"	(25 sheets per box)
1.10 x 10M	Roll

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THE PROCESSING OF SP737T SHEET FILM

ILFORD SP737T red sensitive holographic sheet film can be used with any red laser wavelength but here we give some useful tips on this use with the He-Ne laser at 633nm.

The same processing can be used to make gold coloured reflection holograms white light transmission holograms or laser transmission bleached masters.

- a) Ensure that the film will be free from movement during the exposure, then expose with the He-Ne laser for a time preferably less than 20 seconds.
- b) Develop for 3 minutes in ILFORD SP678C holographic developer (Diluted 1 + 4 to working strength) at room temperature with constant agitation.
- c) Rinse in water for 30 seconds.
- d) Bleach in Ferric Sodium EDTA solution * at room temperature until clear (typically 1.5 to 2 minutes). A few seconds after immersing the film in the bleach solution the room light may be switched on to help determine the end of bleaching.
- e) Rinse in water at room temperature for 2 minutes.
- f) Place the hologram on an absorbent paper towel and squeegee with a wiper blade. Turn the hologram over and repeat the squeegee.
- g) Either hang up to dry or use a gentle, warm air blower to accelerate the drying.

* 30 g Ferric Sodium EDTA
30g Potassium Bromide
Make up to 1 L with water
Then add 10ml conc H₂ SO₄ with caution!