

Products Characteristics

In holography, every application must be made using the proper emulsion. You can find in this document informations about all of the emulsions we produce.

If you have any doubt concerning the emulsion you should use, don't hesitate to contact us at shop@ultimate-holography.com or call us at +33666732475 (France).

THE EMULSIONS (See *technical specifications* under « Downloadable documents » for further details on each emulsion)

Name	Applications	Sensitivity $\mu\text{J}/\text{cm}^2$	Grain size (nm)	Lasers	Lifetime	Recommended process
U25	Transmission holograms made with pulsed lasers	30	25	Ruby, YAG	4°C > 5 years	Pulsed Ultimate Developer + Safe Ultimate Bleach
U08M	Reflexion or transmission monochrom holograms made with pulsed or continuous lasers 2 colors holography (R+G)	90	10	Ruby-Yag continuous laser (Green or Red)	4°C > 5 years	Safe Ultimate Developer + Safe Ultimate Bleach
U08C	Reflexion color holograms made with pulsed (holoprinters) or continuous lasers (Denisyuk).	R+G+B 120 $\mu\text{J}/\text{cm}^2/\text{color}$ R+G 150 $\mu\text{J}/\text{cm}^2/\text{color}$ R, G or B 200 $\mu\text{J}/\text{cm}^2/\text{color}$	8	Continuous or pulsed lasers	4°C > 5 years	Safe Ultimate Developer + Safe Ultimate Bleach
U04	Reflexion color holograms made with continuous lasers (Denisyuk or Hoe's).	R+G+B 200 $\mu\text{J}/\text{cm}^2/\text{color}$	4	Continuous lasers	4°C > 5 years	Safe Ultimate Developer + Safe Ultimate Bleach
DCG	Gélatine bichromatée « prête à l'emploi »	200 mJ/cm^2	-	Power lasers (Blue or Green)	4°C > 5 years	Isopropanol

SENSITIZER DYES

Standard dyes	B	Blue: 400-480 nm
	BG	Blue-Green: 400-540nm
	R	Red: 610-660nm (and Blue 400-460nm)
	DR	Deep Red: 660-700 nm (and Blue 400-460nm)
	WR	Wide Red: 610-700 nm
	VICOL	Color: 400-540nm+ 610-660nm
	DECOL	Color: 400-540nm+ 610-700nm

PRE-SWELLING AGENT, STANDARD IN U08M-R-70

Agent factory incorporated in the gelatine which makes it swell until the exposure. The agent then dissolves itself in rinse water.

Pre-Swell	70 Green-Yellow	Standart preswell -70 - It means that the replay hologram will be shifted in color, 70nm lower than the laser used. For example a record with a red laser like HeNe(633nm) will give a final hologram with a yellow-green color(560nm) Custom value on request, minimum 5 boxes 6,1"x6,1" or 2 boxes 10,2x12,7cm.
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THE SUBSTRATES

Glass: We coat our emulsions on 3mm glass. (2mm or others on request)

Films: They are produced one by one, same way as the plates, with a 63x84cm format on 190µm triacetate substrate .

PLATES AND FILMS SIZES

PLATES or FILMS	Description	Quantity of plates per box	Weight of the box (Kg)
2,4"x2,4" (6,1x6,1cm)	3mm glass plates and medium films 2.4"x2.4" (6.1x6.1cm)	30	1
4"x5" (10,2x12,7cm)	3mm glass plates and medium films 4"x5" (10.2x12.7cm)	18	2
8"x5" (20,4x12,7cm)	3mm glass plates and medium films 8"x5" (20,4x12,7cm)	9	2
8"x10" (20,4x25,4cm)	3mm glass plates and medium films 8"X10" (20,4x 25,4cm)	9	4
20x30cm	3mm glass plates and medium films 20X30cm	8	4
30x40cm	3mm glass plates and medium films 30X40cm	4 or 8	4 or 8
40x60cm	3mm glass plates and medium films 60X40cm	4	8
60x80cm	3mm glass plates and medium films 60X80cm	4	16
Any size (not less than 2,4x2,4"). Cut from 61x80cm	3mm glass plates or films cut on request	Special lot	4

HOLOGRAPHY KITS

Holography kit (5 plates + 1 processing set) Available for U08M-R-70 / U08M-G / U08C	Holography kit containing: 5 glass plates 6,1x6,1cm (3mm) + concentrated developer and safe bleach (developer for continuous lasers with U08M and U08C plates)
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PROCESSING PRODUCTS

Safe Developer not toxic for U08 -1,2 liter (or 5,5 liters)-	DEVELOP -1,2L (or 5,5L)	Concentrated for 1,2 liter (or 5,5 liters) dilution 1:10. Bottle of 120ml (or 550 mL) for 24 4"x5" (for 110 4"x5" or 14 30x40cm). Can be kept one year at room temperature.
Developer for U25 -for 1 liter-	PULSE-DEVELOP -1,0L	Concentrated for 1 liter (to dilute). Bottle of 120ml -can be re-used many times- to store in a special black accordeon bottle for developers. Can be stored one year in this bottle at room temperature.
Holographic Safe Bleach	BLEACH-1L or 5L	Powder -Add 1 liter of water (for 100- 4"x5" or 12-30x40cm minimum). Can be kept one year at room temperature.
Kodak Photo-flo -30 ml	PHOTO-FLO 30ml	Wetting agent for fast and uniform vertical drying.