

Th. Voslion, A. Escarguel, Eur. J. Phys. 33 1803-1811 (2012)

Many outreach and education actions on holography: need for a compact device!

- \rightarrow Creation of the kit for holography (2010)
 - → Outreach
 - → Teaching
 - → Continuing education...
- → Everything needed to produce high quality holograms INSIDE THE CASE :
- → Laser,
- → Optics,
- → Plates,
- → developping tool,
- → Hair dryer...
- → Who used it so far : students university projects, conferences and outreach events, Highschool teachers with their classes, continuing education, highschool student science clubs,...

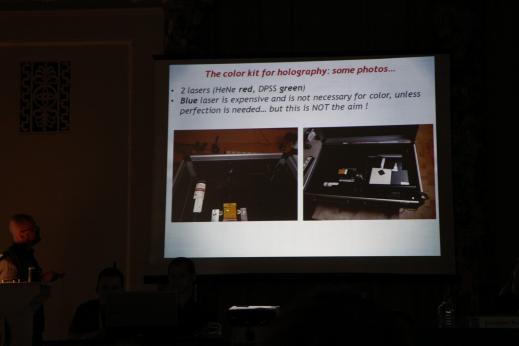


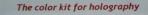


The new color kit for holography: why?

- · Bigger color holograms
 - High quality, very bright (Yves Gentet's Ultimate O8 color plates
 - http://www.ultimate-holography.com/)
 - → More spectacular for science outreach
 - · More experiments for teaching at the unversity:
 - → Double transmission/reflexion holograms
 - → Improvement of the diffraction holographic gratings experiments
 - → Wavelength multiplexing
- Improvement of the design of the plate/object support → Very robust against vibrations

 - → Cheaper
- EVERYTHING NEEDED to realize the holograms is always « in the box » ... but it is a bit bigger @...





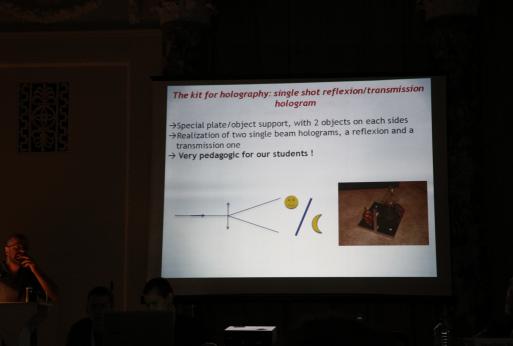
- 20 mW lasers + dichroïc mirror + 1 neutral density + diverging lens
- Optimized plate/object support

 → Reflecting prism replaced by a front surface mirror
- · Denisyuk mono beam type holograms
- Optional spatial filter

















Double exposition holographic interferometry of a metallic foil





