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Making "dry" holograms in a classroom using affordable off-shelf kits (and no dark room experience required) ALEXANDER PANIN, Utah Valley University — Latest developments in the high resolution "dry" photosensitive materials made it possible to create reasonable quality holograms not only on a budget but even without using chemicals (!). As an example, I would like to share my experience with the commercially available kits made by Litiholo which allow one to make up to 20 small (2x3) or 6 bigger (3x5) holograms using a common laser pointer and a snap-in table-top hardware for under $150. It does not even require an optical quality stable table as it used to be. Using these kits almost anyone can make a good hologram of a small object on any solid surface (desk top) in partially darkened room (blue LED flashlight is included) in 10-15 min. The holograms self-develop during the exposure by red laser pointer and do not require any further processing. They can be viewed by the same laser pointer (in partial darkness) to show their best, as well as on a sunlight or under a bright point-like source (where they still appear as 3-D but blurred images). Those kits are student friendly and excellently suited for hands-on lab class in optics.

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