

# Cleaning Holo/Or's DOEs

INSTRUCTION GUIDE

HOLO/OR

All DOE Elements we produce are cleaned and packed under clean room conditions. However, products may become dirty during use or installation at the customer site. Please see our cleaning instructions below and be sure to follow them before attempting cleaning of our products.

**Note:** Holo/Or's items are sent in a clean and ready-to-use condition. If, for some reason, the item becomes dirty, please use the below instructions in order to properly clean the item. Also, please understand that by placing a dirty item in your system there is a chance that this dirt will burn, and that will become impossible to clean it properly.

## Required equipment

Equipment	Application
Nitrogen high-pressure gun	The nitrogen, which is cleaner and drier than air, blows any dust / fibers that may have dropped on the surface
Plastic tweezers	Use the tweezers to pick up the item and move it around.
Clean Acetone	Help with cleaning "sticky" dirt
Big napkin (9"x9") (Nonwoven, cellulose/polyester blend)	To clean "sticky" dirt.
Powderless gloves / finger cots	You must always wear gloves / finger cots when touching the items. Direct contact with your hand might transfer grease from your skin to the item.

### Before cleaning, please prepare a suitable environment:

1. Spread two large napkins on a clean desk, one on top of the other, to create a relatively soft surface.
2. Prepare plastic tweezers nearby in order to pick the items you wish to clean (for items up to  $\varnothing 20\text{mm}$ ). Larger items can be picked with your fingertips (make sure not to touch the surface of the item).
3. Prepare an acetone washing bottle within your reach.
4. Prepare a nitrogen high-pressure gun within your reach.

**\*\*During cleaning and handling of the items, please make sure to wear powderless gloves / finger cots.**

## Cleaning instructions

### In cases where the dirt is dust:

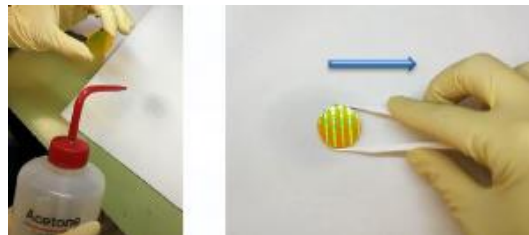
use the nitrogen high-pressure gun to blow away the dust. Use the plastic tweezers to pick the item and place in on the prepared napkins. Hold the item on the napkin using the tweezers and then use the high-pressure nitrogen gun, while keeping it perpendicular to the item.



### In cases where the dirt is sticky:

In case the dirt does not come off using the nitrogen gun, place some acetone at the edge of the napkin (until it is wet and not just moist), place the dirty side of the item on the wet napkin and then drag the item from the wet-side towards the dry-side using the tweezers (by applying minor pressure, assuring there is contact between the item and the napkin).

Now use the nitrogen high-pressure gun to blow away any dust that the item might have caught during the process. Repeat this cleaning process until the item is clean.



### Water patches (might be caused by speaking, sneezing, coughing...):

These types of dirt can be removed by simply cleaning the item with water. Wet the napkin edge with **distilled water** and repeat the cleaning process above – place the item on the wet napkin and drag towards the dry side. After cleaning it with water, clean again with acetone and finely dry and blow away any dirt using the high-pressure nitrogen gun. Repeat this cleaning process until the item is clean.

