

## CA4-EU - August 12, 2021

Item # CA4-EU was discontinued on August 12, 2021 For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

### OPTIC CLEANING SUPPLIES

- ▶ Wipes, Tissues, Forceps, & Dusters
- ▶ Wash & Dropper and Dispenser Bottles



**BD8**  
Solvent Dispenser



**CTA10**  
Cotton-Tipped  
Applicators



**MC-5**  
Lens Cleaning Tissues



**CA4-US**  
Duster



**B2939**  
Wash & Dropper Bottle Kit

#### OVERVIEW

Thorlabs offers the following line of supplies to clean and maintain your optical components:

- **Optic Cleaning:** Optical Cleaning Pads, Optical Cleaning Tissues, Cotton-Tipped Applicators, and Forceps
- **Connector Cleaning:** Kimwipes<sup>®†</sup> Boxes and Cotton-Tipped Applicators
- **Dusters:** Cans of Compressed Propellant
- **Wash & Dropper Bottles Kit:** Four Wash Bottles and Three Dropper Bottles All Clearly Marked for Common Laboratory Solvents (Solvents Not Included)
- **One-Touch Pump Dispenser:** Minimizes Solvent Evaporation When Cleaning Optics



<sup>†</sup>Kimwipes<sup>®</sup> is a registered trademark of the Kimberly-Clark Corporation.

#### SMART PACK

##### Smart Pack Goals

- Reduce Weight of Packaging
- Increase Usage of Recyclable Materials
- Improve Packing Integrity



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Updated B2939

- Decrease Shipping Costs

Thorlabs' Smart Pack Initiative is aimed at minimizing waste while providing adequate protection for our products. By eliminating any unnecessary packaging, implementing design changes, and utilizing eco-friendly materials, this initiative seeks to reduce the environmental impact of our product packaging.

The updated B2939 packaging primarily consists of recycled paper and cardboard and weighs 23% less than the original packaging. This weight change results in a 70.86 kg reduction in travel-based CO<sub>2</sub> emissions per year, based on typical product sales.

As we move through our product line, we will indicate re-engineered, eco-friendly packaging with our Smart Pack logo, which can be seen above.

## Premium Optical Cleaning Pads

### Webriil® Handi-Pads (Item # CP-100)

- ▶ Pure Cotton, Non-Woven, Low Lint, Absorbent
- ▶ 100 Pads per Pack
- ▶ Nominal Single Sheet Dimension: 4" x 8" (100 mm x 200 mm)



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Handi-Pad  
Application

The Handi-Pads are plush non-woven cotton pads. Each 4" x 8" pad is folded in half (4" x 4") prior to packaging so that a pure, uncontaminated pad surface is available even if the package is opened in a non-cleanroom environment. These pads are free from contaminants and adhesives, which make them ideal for use with optics cleaning solvents. The large plush pad allows the user to make a single continuous wipe across the entire surface of the optic being cleaned, even if the surface is curved such as with a lens. The pad can also be used to wrap optics before placing them in a storage container.

Part Number	Description	Price	Availability
CP-100	Handi-Pads 4" x 8" (4" x 4" Folded), 100 Wipes per Package	\$12.66	Today

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## Premium Optical Cleaning Tissues

### Lens Tissues (Item # MC-5)

- ▶ Extremely Soft, Premium Grade Sheets (25 Sheets per Booklet, 5 Booklets per Pack)
- ▶ Single Sheet Dimension: 4.9" x 2.9" (124 x 73 mm)
- ▶ Meets U.S. Government Lens Tissue Specification A-A-50177B

### Bulk Lens Tissues (Item # MC-50E)

- ▶ Extremely Soft, Premium Grade Sheets (25 Sheets per Booklet, 50 Booklets per Box)
- ▶ Recloseable Box for Easy Storage
- ▶ Meets U.S. Government Lens Tissue Specification A-A-50177B

Lens tissues are 4.9" x 2.9" (124 x 73 mm) organic fiber sheets free from contaminants and adhesives, which makes them ideal for cleaning high-grade optics with or without the use of optic-cleaning solvents. Lens tissue will not leave lint or fibers on the optic and can be used to wrap an optic before placing it in a storage container.

Part Number	Description	Price	Availability
MC-5	Lens Tissues, 25 Sheets per Booklet, 5 Booklets	\$10.83	Today
MC-50E	Lens Tissues, 25 Sheets per Booklet, 50 Booklets in a Closeable Box	\$86.30	Today

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## Kimwipes® and Cotton-Tipped Applicators

### Kimwipes®† (Item # KW32)

- ▶ 4.4" x 8.4" (11.2 cm x 21.3 cm), Durable, Absorbent, Extra Low Lint Sheets
- ▶ Ideal for Cleaning Connectors between Polishing Steps
- ▶ 280 Kimwipes per Box, 12 Boxes per Case (Sorry, No Partial Cases)

#### Cotton-Tipped Applicators (Item # CTA10)

- ▶ 6" Wood Stick Disposable Applicators with Cotton Tips (100 per Pack)
- ▶ Appropriate for Cleaning Connectors or Optics

Kimwipes® are durable, low-lint sheets and the cotton-tipped applicators are nonabrasive, disposable swabs. Both the Kimwipes and the cotton-tipped applicators are appropriate for cleaning optical fiber connectors. Additionally, the cotton-tipped applicators are optical grade, meaning they are nonabrasive and will not deposit contaminants, making them appropriate for cleaning optics (see our Optics Handling and Care Tutorial for details).

Please note that Kimwipes are sold in cases, with 12 boxes per case and 280 Kimwipes per box, and are not ideal for cleaning optics. Instead, we recommend using the MC-5 lens tissues to clean optics. We do not recommend using the cotton-tipped applicators with acetone.

†Kimwipes® is a registered trademark of the Kimberly-Clark Corporation.

Part Number	Description	Price	Availability
KW32	Kimwipes®, 280 Kimwipes per Box, 12 Boxes Per Case	\$49.23	Today
CTA10	Optical Grade Cotton-Tipped Applicators, 100 Per Pack	\$4.65	Today

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#### Forceps

- ▶ Fabricated from Solid Stainless Steel
- ▶ Straight and Angled Versions Available
- ▶ Locking Grip Ideal for use with Lens Tissue Paper for Optics Cleaning

Thorlabs offers stainless steel forceps that are equipped with narrow tips for holding small objects. The locking grip on the forceps can be used to keep the tips in a closed position. The FCPA features an angled tip while the FCP has a straight tip.



Click to Enlarge  
Optic Cleaning Using  
Forceps and Lens  
Tissue Paper

Part Number	Description	Price	Availability
FCP	Forceps, Solid Stainless Steel	\$18.14	Today
FCPA	Customer Inspired!&nbsp;Angled Forceps, Solid Stainless Steel	\$18.14	Today

#### Dusters with Low Global Warming Potential

- ▶ HFO-1234ze Propellant
- ▶ Integrated Plastic Nozzle
- ▶ Low Global Warming Potential (GWP) of 6
- ▶ Zero Ozone Depletion Potential

Thorlabs offers the CA4 Eco-Friendly Air Duster. This product evaporates HFO-1234ze to create gusts at 11.4 m/s. This general use dusting can is ideal for cleaning and maintaining optical and electrical equipment. Due to different nation's regulations, we offer two versions of this product: the CA4-US is compliant in the United States and Canada, while the CA4-EU is compliant in the European Union. Both are chemically identical, but the packaging differs. Be sure to check with your government's regulations before ordering either product. The labels for the CA4-US can be downloaded by clicking here and the CA4-EU by clicking here. This duster's propellant, HFO-1234ze (1,3,3,3-Tetrafluoropropene), has a GWP of 6.

#### Global Warming Potential (GWP)

Global Warming Potential according to the United States Environmental Protection Agency is a measure of how much energy the emissions of 1 ton of a gas will absorb over a given time, relative to the emissions of 1 ton of Carbon Dioxide (CO<sub>2</sub>). CO<sub>2</sub> is defined as having a GWP of 1. GWP is usually estimated for a 100-year time horizon, but other methods may be used. The higher the GWP of a gas, the more energy it can trap in Earth's atmosphere, correlating to a higher average global temperature. For a point of comparison, Methane (CH<sub>4</sub>) is listed as having a GWP of between 21 and 25.

### Shipping Concerns

Please note that these items are classified as a dangerous good in some countries. Depending on the delivery location, this item may need to be shipped separately from the rest of your order at an additional charge. These items are stocked within the USA and Germany. Please contact our sales department if there are questions or concerns when placing an order for dusters.

The attached MSDS, found by clicking the (  ) icon, is given in over twenty languages.

Part Number	Description	Price	Availability
CA4-US	Customer Inspired!&nbsp;United States and Canada Compliant Duster w/ Integrated Nozzle, 10 wt oz	\$22.81	Today
CA4-EU	Customer Inspired!&nbsp;European Union Compliant Duster w/ Integrated Nozzle, 250 mL	\$22.81	Today

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### Wash and Dropper Bottles

- ▶ Four 500 mL Wash Bottles Labeled for Acetone, Methanol, Distilled Water, and Isopropanol (Solvents Not Included)
- ▶ Three 30 mL Dropper Bottles Labeled for Acetone, Methanol, and Propanol (Solvents Not Included)

These plastic wash bottles are ideal for the storage and dispensing of common laboratory cleaning solvents. The small dropper bottles are made from non-reactive plastic and recommended for dispensing cleaning fluids for laser grade optics. Each bottle is clearly labeled and the large bottles are color coded to help prevent misidentification of the solvents.

Part Number	Description	Price	Availability
B2939	Kit: 4 Wash Bottles and 3 Dropper Bottles	\$70.75	Today

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### Solvent Dispenser Bottle

- ▶ One-Handed Operation
- ▶ Holds Up to 8 oz (236.59 mL) of Solvent

This one-touch pump dispenser bottle is great for minimizing evaporation of solvents when cleaning optics with a swab or brush. Simply flip up the cap and press down on the spring-loaded top to fill the shallow reservoir with solvent. The bottle has a capacity of 8 oz and is suitable for most solvents, including acetone, gasoline, propanol, MEK, toluene, turpentine, and water. Eighteen pre-labeled and two blank self-adhesive labels are included.

Part Number	Description	Price	Availability
BD8	8 oz One-Touch Pump Dispenser	\$21.86	Today



**TECHSPRAY**  
**RENEW**  
HIGH PERFORMANCE ECO-CLEANING

**RENEW-DUSTER**  
ULTRA PURE DUSTER

1550-10S  
200 ml (6.8 fl. oz.)

- Non-Flammable
- Low Global Warming Potential
- Non-Ozone Depleting



Read cautions on back panel

RoHS Compliant  Low GWP