Clean up a 1 2 beam splitter



Overview

To clean beam splitters, it is recommended to use a soft cotton cloth or window leather with a neutral or weakly alkaline aqueous window cleaner containing less than 5% ammonia or organic solvents.

Key Takeaways

Clean a 1: 2 beam splitter using a soft, lint-free cloth and ammonia-free cleaning agents, handling it carefully to protect its delicate coatings.

Preparation and Handling

Always handle the beam splitter by its edges to avoid fingerprints on the optical surfaces. Place it on a soft, clean surface such as a microfiber cloth or the glare cover provided in your kit to prevent scratches. Avoid touching the coated surfaces directly, as oils from fingers can damage the coating and affect the splitting ratio.

Cleaning Procedure

Use the correct cleaning agent: Only use ammonia-free sprays or window cleaners. Avoid strong alkalis, acids, fluoride-containing detergents, or solvents, as these can permanently damage the coating. Apply sparingly: Lightly spray the cleaning solution onto the surface or onto a soft lint-free cloth.

Do not saturate the glass. Wipe gently: Using a soft cloth or squeegee, wipe the surface in straight strokes, moving back and forth or up and down. Avoid circular motions that can leave streaks or scratches.

Dry thoroughly: Ensure the surface is completely dry before flipping the beam splitter to clean the other side. Residual moisture can leave spots or damage the coating.

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Post-

Cleaning Care

Store properly: Place the cleaned beam splitter in a protective sleeve or case to prevent dust accumulation and UV exposure. Avoid stickers or adhesives: Do not apply labels to the optical surface, as removing them can damage the coating. Regular maintenance: Clean the beam splitter after each use to maintain optimal optical performance and prevent staining.

Additional Tips

For pellicle or delicate cube beam splitters, extra care is needed due to their thin membranes or AR coatings. Handle them gently and avoid high-pressure cleaning. If the beam splitter is part of a mounted system, consider removing it carefully before cleaning to avoid misalignment or damage to the mount.

By following these steps, your 1: 2 beam splitter will remain clean, maintain its optical performance, and have a longer operational life.

Article Content

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Thorlabs offers a wide range of optical beamsplitters. Our plate beamsplitters have a coated front surface that determines the beam splitting ratio while the back

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This guide talks about common handling and cleaning methods that are useful for optical components. As optical components vary in size, material etc. it is vital that one uses the right method to handle

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Take the ammonia-free spray bottle from the cleaning kit and spray once or twice on the beamsplitter glass. Using the squeegee, push backwards and forwards, up and down the glass to

Beam Splitters – optical power splitter, beamsplitter, thin-film ...

A beam splitter as shown in Figure 1 will always lead to a transverse offset of the transmitted beam, which is proportional to the thickness of the substrate. There are so-called pellicle beam splitters with

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This discussion focuses on the proper cleaning techniques for polarizing beamsplitter cubes, emphasizing the importance of using appropriate materials and methods to avoid damaging

What are Beamsplitters?

Beamsplitters are optical components used to split incident light at a designated ratio into two separate beams. Additionally, beamsplitters can be used in reverse to combine two different beams into a

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Our dielectric coating is extremely durable, and can be cleaned with standard, non-ammonia glass cleaner and paper towels. Although not necessary, cleaning them with lens cleaner and microfiber

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To summarize - 92:2 (uncoated) version of the pellicle is totally not clenable! The coated one is extremely hard to clean, depend on type of dirt dust, maybe someone succeed aforementioned

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06 BEAMSPLITTER Cleaning-Advice English To clean beam splitters, it is recommended to use a soft cotton cloth or window leather with a neutral or weakly alkaline aqueous window cleaner containing

Beam splitter

Beam splitter Schematic illustration of a beam splitter cube. 1 - Incident light 2 - 50% transmitted light 3 - 50% reflected light In practice, the reflective layer absorbs

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This document contains a long list of words beginning with "ab-" or "ac-". It does not appear to be a coherent text, but rather a collection of unrelated terms.

What are Beamsplitters?

Beamsplitter Construction | Types of Beamsplitters Beamsplitters are optical components used to split incident light at a designated ratio into two separate beams. Additionally, beamsplitters can be used

Fundamental properties of beam-splitters in classical and quantum optics

1. Introduction. In quantum optics, as in classical optics, beam-splitters play an important role in many experimental settings.1,2 Typically, a lossless beam-splitter has two input ports (1 and 2) as well as

Beam Splitter Selection Guide

Our beam splitters are made from high grade glass material with laser grade surface flatness & surface quality for tighter tolerance on the splitting ratio.

Beam Splitter

The beam-splitter directs a second beam of light to the sample where it is reflected. The two beams of light return to the beam-splitter and are combined forming an image of the measured surface

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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