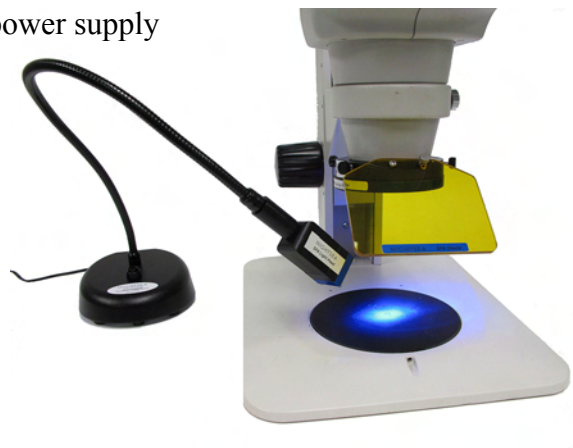


Stereomicroscope Fluorescence Adapter

The Stereomicroscope Fluorescence Adapter system consists of:

- Flexible gooseneck lamp base with power supply
- Ring adapter for microscope
- Light head
- Barrier filter
- Filter shield

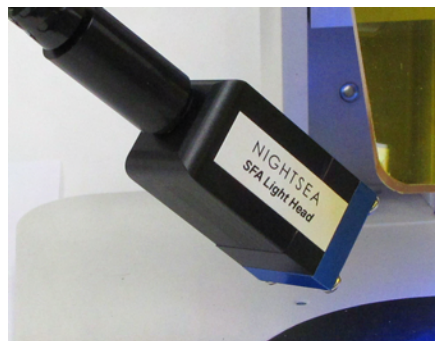


The light head, barrier filter, and filter shield are interchangeable so that you can easily switch between excitation/emission light+filter combinations.

Mounting Instructions

Illuminator

The light head plug has locking tabs that mate with the jack on the end of the gooseneck. Insert the jack and rotate clockwise until you feel pressure, then stop. This is a 'soft' lock – the connector does not screw or snap into place, but once engaged the light head will not pull out.



Adapter

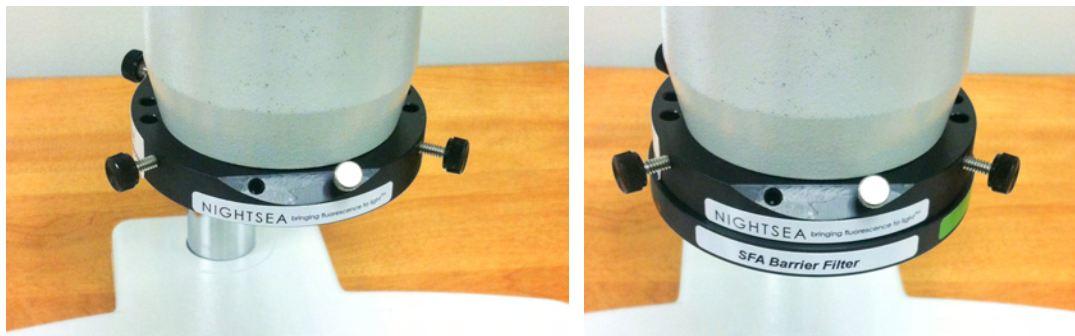
Attach the ring adapter to the underside of the stereomicroscope barrel using the thumbscrews. The bottom face of the adapter should be below the bottom edge of the barrel.

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Filters

The circular barrier filters attach magnetically. The mounting magnets are contained within the adapter and there are steel arcs contained within the filters. Orient the filter so that the flat surface is facing up (the text on the labels will be right side up) and place it underneath the adapter. It should snap into place, and can be removed with an easy pull.



Shield

The viewing shield has a screw that protrudes a small distance and a slot. Insert the screw into the mating hole in the front edge of the ring adapter and rotate the slot under the thumbscrew on the adapter. Tighten the thumbscrew just enough to secure the shield.





Switching between color sets

If you have purchased more than one excitation/emission color set you can switch between them in seconds. Simply remove the *light head*, *barrier filter*, and *viewing shield* and replace them with the corresponding elements of the new set. The elements of the excitation/emission light + filter combinations are color coded for easy reference. Refer to the specifications at the end of these instructions for details of the filter sets.




Maintenance

You can clean all of the elements with a lint-free cloth or wipe such as lens tissue. The barrier filter and viewing shield are made of optical grade polycarbonate and can be scratched if any abrasive is applied. They can be washed with a mild dish detergent if necessary. When not in use store the light head and filters in the padded box provided with the system.

Cautions

-  The ring adapter contains several small neodymium magnets. These are encapsulated with no risk of coming free. The strong magnetic fields of neodymium magnets can damage magnetic media such as credit cards, magnetic I.D. cards, cassette tapes, video tapes or other such devices if placed in close contact. Never allow neodymium magnets near a person with a pacemaker or similar medical aid. The strong magnetic fields of the magnet can affect the operation of such devices.
-  The light heads emit intense LED light. Users should avoid looking directly into the front of the light heads. The Royal Blue light heads in particular pose a risk of thermal damage and are classified as ‘ANSI RG-3 Do not look at exposed lamp in operation. Eye injury can result.’ This warning is marked on the side of the Royal Blue light heads.

Specifications

	Filter set	Excitation	Emission	Fluorophores
	Royal Blue	440 – 460nm	500nm LP	GFP, eGFP, fluorescein, ...
	Cyan	490 – 515nm	550nm LP	YFP, Venus, ...
	Green	510 – 540nm	600nm LP	DsRed, dTomato, ...

Microscope mounting adapter – fits up to 67mm standard, other options available

Power supply – 90 – 240VAC, 50/60Hz

Limited 2-Year Warranty

Electron Microscopy Sciences warrants the Products to be free from defects in workmanship and materials under normal use for two years. This warranty covers all of the component parts of the Products except LEDs, which are warranted for one year. This warranty does not cover deterioration due to normal wear or damage due to misuse, alteration, negligence, accident, or unauthorized repair. Electron Microscopy Sciences will at its discretion repair or replace parts that are defective in workmanship or materials. After three (3) unsuccessful attempts to repair the product, the purchaser has the right to elect replacement of the product or a refund of the purchase price less allowance for use of the product.

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