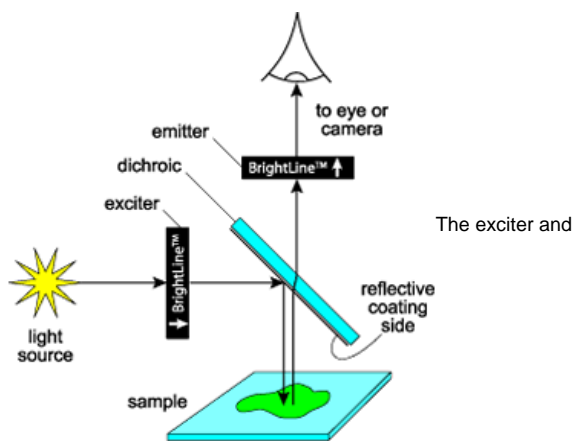




Technical Information: Orientation Of Filters In A Microscope

Orientation of filters in a microscope: Because BrightLine filters are so durable, you can easily populate your own cubes, sliders, and filter wheels without having to worry about damaging the filters. To obtain the most optimal performance from the filters, they should be oriented properly. The diagrams below explain the proper orientation.

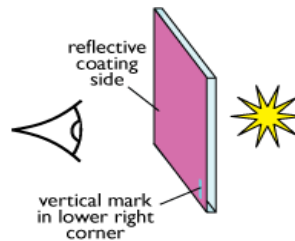
Proper orientation of all filters



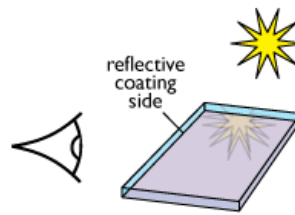
emitter should be oriented so that the arrow on the side of the aluminum ring points in the direction of propagation of the desired light – from the light source to dichroic for the exciter and from the dichroic to eye or camera for the emitter. The dichroic should be oriented such that the reflective coating side faces toward the exciter or light source and the sample.

Dichroic beamsplitter "reflective coating side"

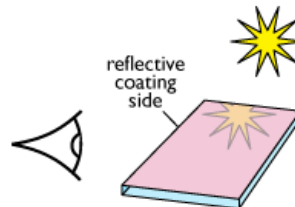
Marked Dichroics



If the dichroic has a small linear mark, the reflective coating side is facing you when the mark is vertical and in the lower right corner.



When viewing the dichroic with the **reflective coating side down**, you can see a double-reflection of a bright object and the thickness of the filter at the far edge is apparent.



When viewing the dichroic with the **reflective coating side up**, you can see a predominantly single reflection of a bright object and the thickness of the filter at the far edge is not visible.