Assembling the Nikon Cube

A Quick How-to Guide for Nikon Cube TE2000







Figure 6.1-1



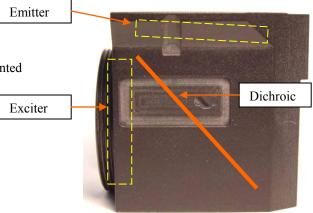


Step	Action
1.1	Install the Semrock Filter Set
1.1.1	The diagram below illustrates a cross section of the Nikon NTE cube for use in orienting and installing the Exciter, Dichroic and Emitter filters into the cube assembly. The cross section is for reference only to illustrate filter position and orientation.

Filter Positions

The Emitter is located at the top of the cube assembly. Notice it is mounted at a slight angle.

The Exciter is located at the left side and the Dichroic is mounted diagonally at the center of the cube.



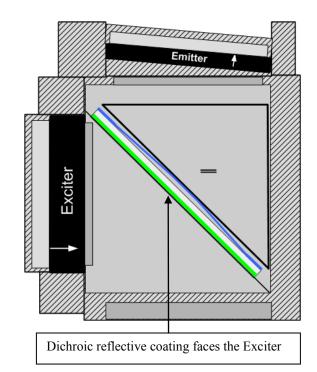
Filter Orientation

The filters are *oriented* in the assembly as follows:

- The Exciter is mounted with its arrow pointing inward.
- The Dichroic reflective side is mounted facing the Exciter
- The Emitter is mounted with its arrow pointing outward.

Light passes through the cube in the direction of the arrows.

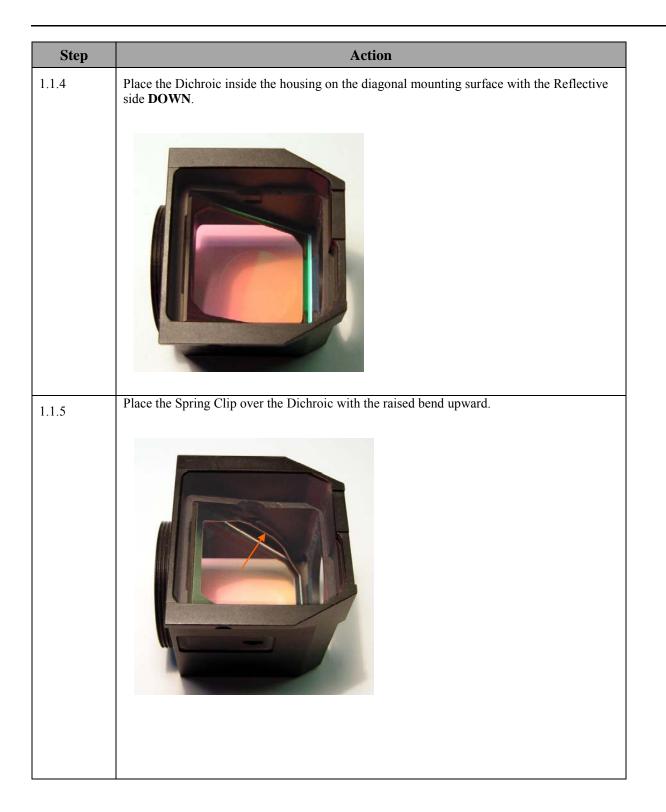
Note: The Dichroic reflective coating must face the Exciter as shown in the cross section diagram.





Step	Action
1.1.2	Orient the cube housing with the Exciter side to the left as shown below. The Dichroic filter is mounted diagonally in the area shown by the dashed line.
1.1.3	Reflective "Coated Side": The filter edge is concealed by the reflective coating and appears colored all the way to the edge.
	Anti-Reflective "Uncoated Side": The filter edge appears uncolored.
	Fefective Side

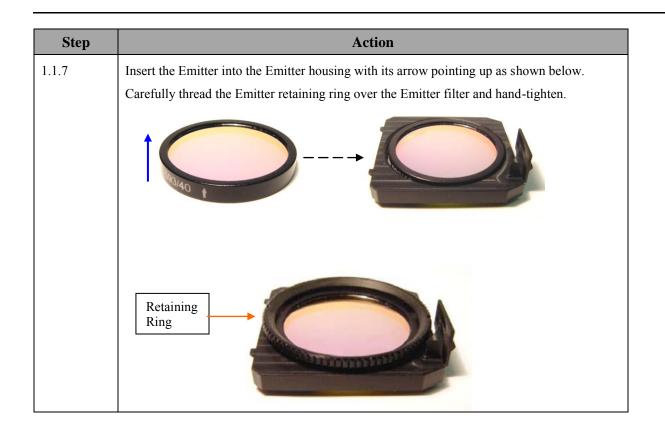




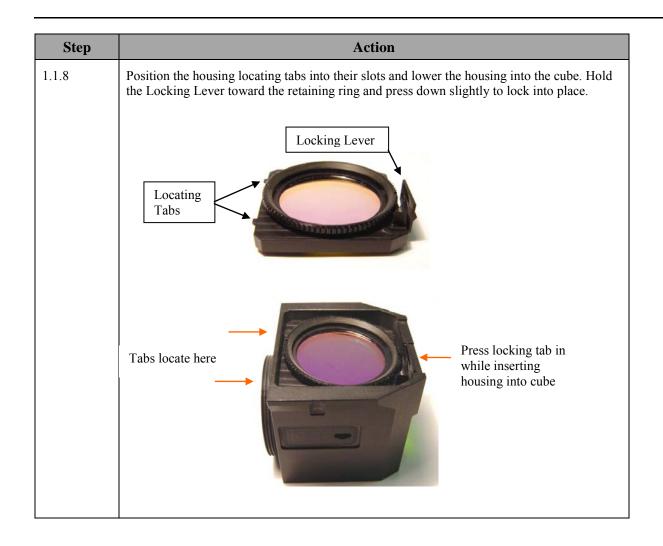


Step	Action
1.1.6	Install the Dichroic Retainer over the Spring Clip.
	Insert the Retainer into the cube until its slanted edge meets the raised edge of the Spring Clip. Align the Retainer with the Spring Clip and gently press downward until the Retainer locking tabs engage the slots inside the cube.
	The retainer will click into place when both tabs are secure.
	In the photo below the Retaining Clip is shown locked in place. Note that the Spring Clip is compressed over the Dichroic filter.
	Locking Tabs

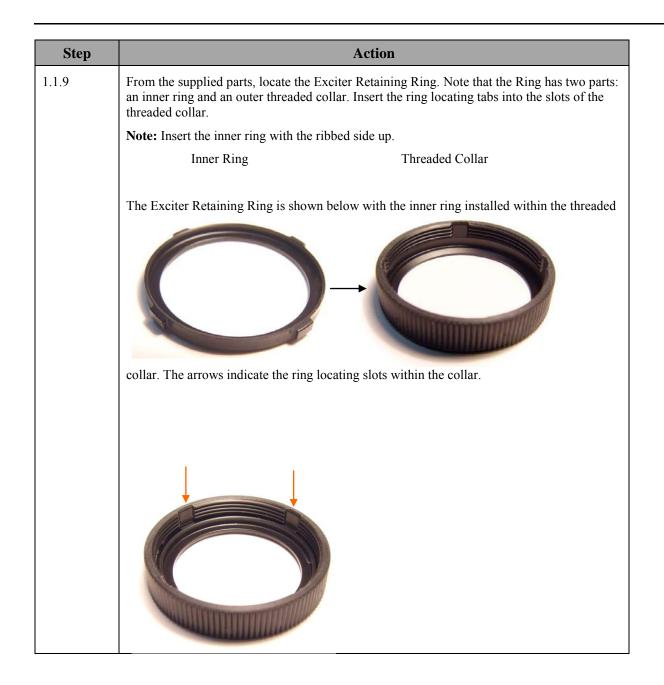














Step	Action
1.1.10	<image/>
1.1.11	Position the cube with the Exciter mounting area facing upward. Place the filter inside the Exciter mounting area with the arrow pointing in.



Step	Action
1.1.12	Thread the Retaining Ring over the Exciter filter. Carefully rotate the Retaining Ring to avoid cross threading. If the ring will not turn, it is not threaded properly. Slowly turn the ring out and try again. Do not force thread the ring as it will turn freely if oriented correctly.
	Once snug, tighten slightly further to secure.
1.1.13	Completed Nikon NTE Cube Assembly.