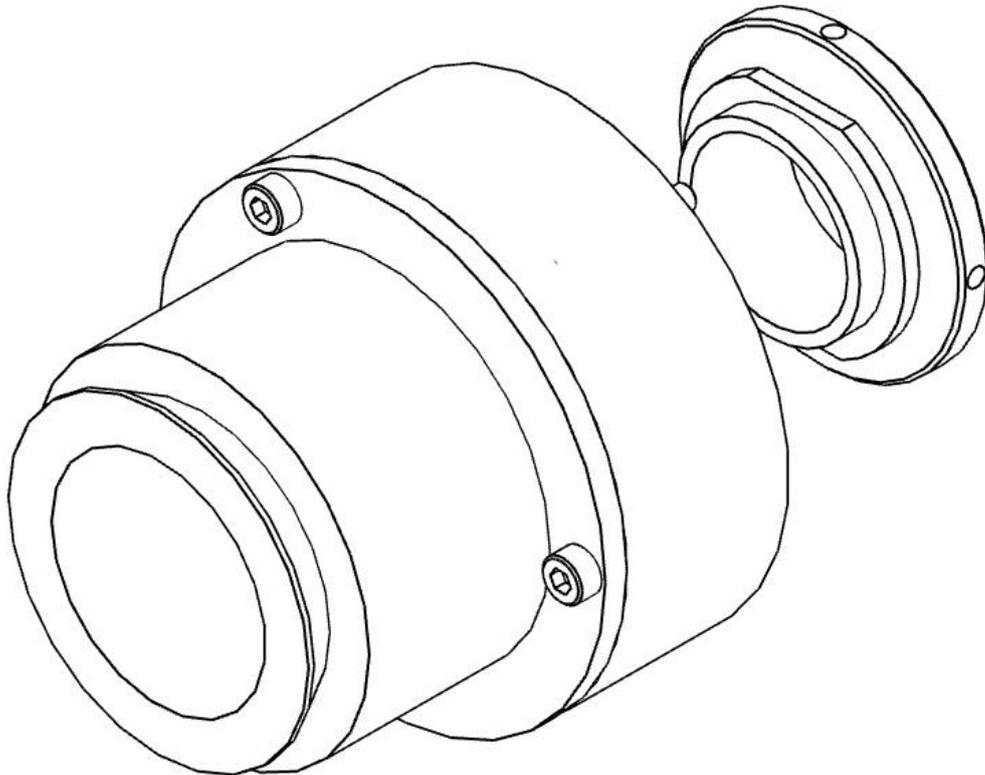# HF236 | Manual

Evident/Olympus IX Adapter Kit for Filter Wheels
V 3.0

This guide has been made with the purpose of instructing how to connect a Prior HF110A filterwheel to an Evident/Olympus IX71, IX81, IX73 and IX83 inverted microscopes with the HF236 adapter kit.

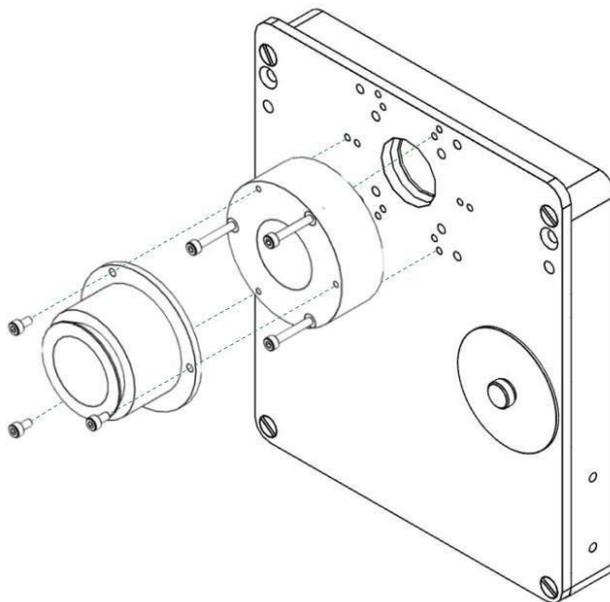The HF236 Adapter Kit contains the below items:
- 1x HF207 Male-Male C-mount Adaptor
- 1x HF582 IX Emission Port Flange
- 1x HF630 IX Emission Port Spacer
- 3x T77 M3x6 Screws
- 3x T81 M3x20 Screws
- 1x W307 2.5mm Allen Key

1.   Mount the HF630 to the filterwheel as shown. Place the HF630 Spacer should be positioned with the etched wording against the filterwheel.
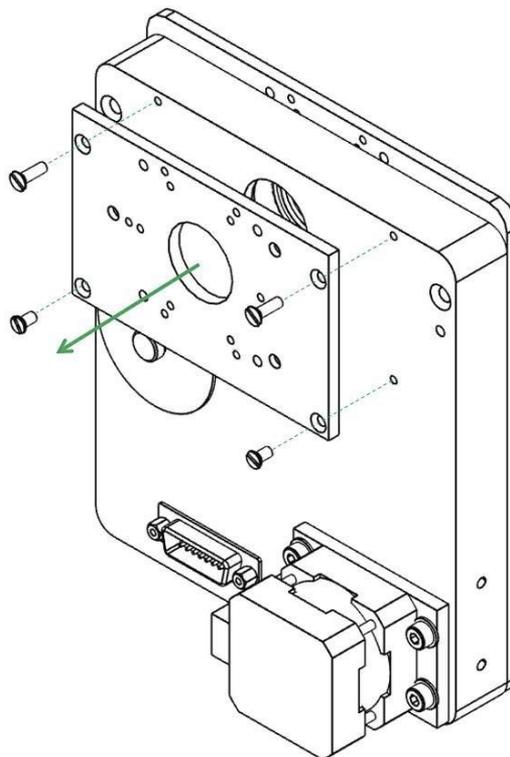
Use the 3x T81 screws with the 3 indicated sockets to secure the spacer to the filterwheel.

With the spacer secured, place the HF582 Flange against the spacer with the three holes on the spacer matching up with the holes on the flange.
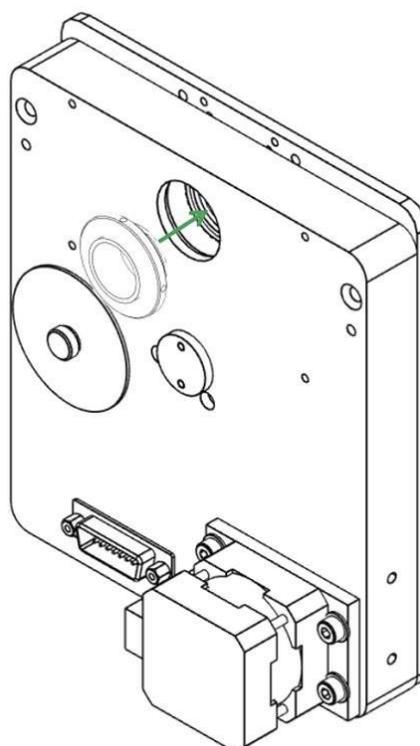
Use the 3x T77 screws to secure the flange to the spacer.

2.   Remove the mounting plate from the opposite face of the filter wheel by using a flathead screwdriver to unscrew the four countersunk screws as shown.

3.   Screw the HF207 adapter into the threaded hole with the rotating lock ring facing outwards.
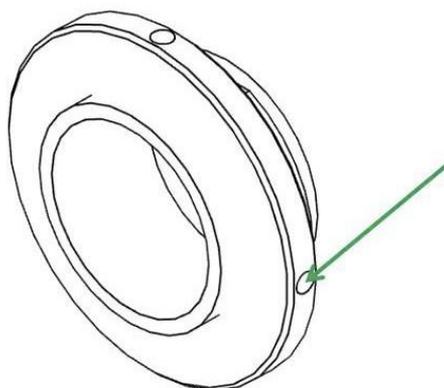
4. With the adapter flush against the filterwheel, the adapter is fully installed and the filterwheel can be attached to the emission port.

5. When the filter wheel is installed, screw the camera onto the C-mount adapter until you achieve parfocality between your camera and the eyepiece. Once the correct position has been found, rotate the lock ring of the adapter towards the camera to lock the camera in place.

   When turning the lock ring, exercise caution to not loosen the HF207 adapter from the filter wheel by overtightening. If the camera is physically too large to turn the wheel with fingers, four holes in the edge of the wheel are present to allow use of a hex key instead.

6. Loosen the grub screw holding the filter wheel to the microscope camera port. Rotate the filterwheel as required so that objects appear in the correct orientation in your imaging software. For Evident/Olympus software refer to 'camera to stage orientation' under 'calibrations'.