

# NPL Macrophotography Equipment

Illustrated Inventory and How-to for Basic Camera Body and Lens Assembly

In the file cabinet labeled camera supplies, you'll find 2 Canon DSLR bodies (Eos 5D, and 5D Mark II) and a variety of lenses and extender tubes. Most SLR's follow the same principal for attaching lenses. The following examples will show only the Canon 5D MII, but should work across all camera bodies.

INVENTORY, as of AUGUST 2011

- 2 - Extension tubes, used to make the lens longer when photographing smaller specimens



- 1 - 50mm f/1.4 lens- for smaller specimens that need a shallower depth of focus (narrower slices per photograph)



- 1- 100 mm f2.4 lens – for average specimens, still allowing for many slices (box not shown, generally it is attached to a camera or in a padded camera bag)



- 1 – Cannon EOS D5 Mark II camera body



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- 1 – Cannon EOS D5



On both cameras, the crescent shaped button below the EOS 5D is the release button for the lens. ONLY depress this button when you are ready to loosen the lens and replace it with an extender, another lens or the lens cap.

The camera articulates with the lenses and extension tubes via a screwing mechanism. It is important to remember to always put the lens cap back on immediately after removing a lens. If you are packing the camera for the day, also cover the camera body. Always be conscious of where you put the lens down, as you don't want it to roll off a table and crash to the floor.



1. Camera body (alignment mark not seen in this view)
2. Tube extender
  - a. Alignment mark
3. Lens
  - a. Alignment mark

Using the alignment marks as a guide, set the lens or extender into the camera body. The screw area is also flanged, and this is what the alignment marks make you aware of. Do not allow the lens/tube/camera alignment to cross thread at any time. Turn lens or adapter until you feel it click into place. Once this occurs, the lens is 'locked' and is safe to move.



To release lens, press the crescent shaped button below the D5 designation, and gently turn until you feel it come free. Always keep a firm grip on all pieces. Laying the camera on its back is a good choice for keeping everything stable. Cover all exposed lenses and mirrors, and put equipment back into a padded camera bag, or manufacturer packaging.



Image via Mahalo.com