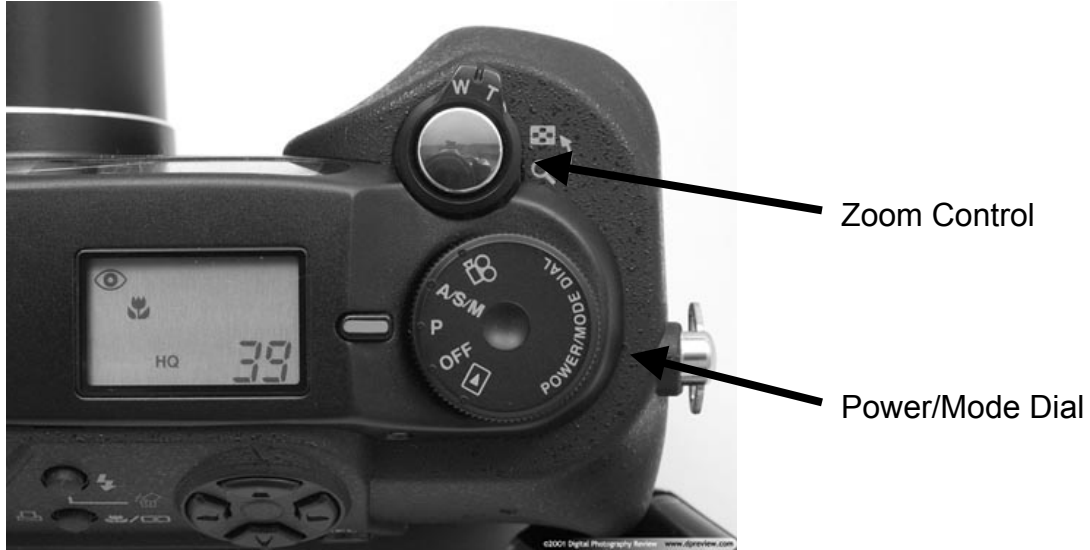


Olympus C-3040 and C-4040

X-mount settings recommendations

With the exception of the higher pixel count in the C-4040 these camera are very similar in features and operation

Top of Camera Controls



Power/Mode Dial - A/S/M –

This setting puts the camera into the mode selected in the Mode Setup menu, which for microscope use should be on Aperture Priority

Zoom Control T - Tele

The lens should be zoomed toward the telephoto until the image no longer vignettes. This will occur at about the maximum optical zoom setting. The digital zoom should be turned off.

Rear of Camera Controls



Exposure Compensation – set with the right and left sides of the 4-way button
This control is the main adjustment of exposure. Usually one setting will suffice for the whole procedure. For difficult situations multiple exposures at different levels may be necessary. See Bracketing below.

Record Mode Menus

The Record Mode Menus settings are reached by pressing the MENU button while in the P or A/S/M mode. The selection is set by pressing the OK button

AF/MF

Auto Focus / Manual Focus - Manual - set at infinity

The optics of the X-mount assumes the camera is focused at infinity. The auto focus must be disabled and the camera manually focused at infinity. The manual setting is selected with the menu and the actual focus distance is set with the up and down part of the 4-way selector

DRIVE

Drive/Bracket - Single shot or BKT set at +/-0.03 or +/-0.07 x 5

These camera exposures are usually accurate enough that any minor errors can be corrected in a program like Photoshop. The BKT setting forces the camera into taking 3 or 5 pictures at various levels on either side of the normal exposure. This may be useful in difficult situations.

WB

White Balance - Manual

Using the manual white balance will compensate for all the variables present in the light sources and lens system in

microscope imaging. To set, select the manual aim the camera at bright white paper or a Kodak gray card and push the OK button.

ISO

ISO Sensitivity - 400

Vibration is one of the major problems in microscope imaging. Higher ISO settings yields higher shutter speeds will help reduce the effects of vibration.



Flash compensation – not applicable

The flash is disabled so this control does not come into play



Flash Slow Sync - OFF

The flash is disabled so this control does not come into play



Digital Zoom – OFF

The telephoto end of the optical zoom is the setting for the X-mount



Function (Picture Effect) – OFF

This setting has no purpose for microscope imaging



Audio Clip – OFF

Selecting this feature allows for a 5 second recording of sound after each picture, which could be useful for annotation of the images.



Mode Setup –

Controls a variety of settings for the record mode, set as below;

- ALL RESET** **OFF -**
camera functions are memorized at power-down and returned to those setting on power-up
- WB FINE TUNE** **Centered –**
allows for fine-tuning of white balance – if the WB is set Manually it will be accurate already
- SHARPENING** **NORMAL**
- CONTRAST** **NORMAL OR LOW**
- TIFF** **2048 x 1536**

SQ1 1600 x 1200 / Normal
SQ2 1024 x 768 / Normal
FLASH External (synch) only
BEEP Low or High
AF MODE Normal or Spot
FULL-TIME AF Off



Image Format/ Size – HQ

This sets the image quality to 2048x1536 @ JPEG High Quality which seems to be the best compromise between image quality and image size.



A - Aperture Priority

This will make aperture priority available when the camera exposure mode is set to manual (A/S/M) set aperture at f2.6 (set by pressing the up/down arrow on the 4-way keypad)



Auto Exposure Lock - OFF –

turns off the AE (exposure lock) button