



QUANTUM MICROSCOPE ATTACHMENT MX-1

INSTRUCTIONS



The MX-1 accessory is recommended for models Calcu-Flash II and Calcu-Light XP, although it fits any Calcu-Flash/Calcu-Light model. Mount the lens assembly over the mark  on the instrument housing. Tighten the thumbscrew. (On early models, you must remove the screw of the MX-1 by prying off the screw retainer on the underside of the turret).

For continuous light readings with Calcu-Light

The MX-1 must first be used to determine an effective aperture for your microscope system. Remove the eyepiece and insert the MX-1 and meter. Take a digital light reading of a typical subject and record it. Then mount your camera as you normally do, and take a series of test exposures at various shutter times. Record the shutter time that yielded the best photograph.

Next, set the meter dials to the film speed used, and the reflected light  window pointer to the digital reading recorded above. Read from the dials the f number corresponding to the "best" shutter time, above. That f number is your microscope's effective aperture. Future exposures can now be determined by setting the reflected light pointer to the digital readings obtained and exposing the film for the shutter time corresponding to the effective aperture on the meter dials. If you change any part of your microscope or the objective lens, obtain a new effective aperture.

For flash readings with Calcu-Flash

Flash readings require a different procedure. Set the Calcu-Flash dials for reflected light , low range , and the proper film speed. If you know the effective aperture from the continuous light readings section you can take your flash reading now. Set up your shot and trigger the strobe. Adjust the strobe power until the digital reading of Calcu-Flash corresponds with the effective aperture, on the dials. Take your picture exposure with the same set-up.

You may vary the flash power for your shots by using the accumulated mode of Calcu-Flash. Repeatedly fire the strobe and let the meter add the total light power. Allow the strobe to recycle in between bursts. Use the same number of strobe bursts for the film exposure.

If you need to determine your effective aperture with Calcu-Flash, you must take a series of test exposures of a typical subject. Record the digital flash readings for each exposure, and select the best photograph and its corresponding digital reading. With the Calcu-Flash dials set as in the paragraph above, the effective aperture will lie on the dial next to this "best" digital reading.