

Sony DVR- PC100/110

Xmount settings recommendations

Zoom

The correct position of the zoom is approximately half way through the zoom range. Too wide of a setting will result in vignetting. Too close of a setting and the image will vignette with a “bloom” around it. In the CAMERA mode there is a small sweet spot where there is no vignetting. For some reason, in the MEMEORY mode, it is impossible to completely eliminate a small amount of vignetting. The zoom seems to be easier to adjust with the remote since it reacts slower than the control on the camera.

LCD Screen

Since exposure will be set manually, the LCD screen should be adjusted so that the image seen reflects what the camera will generate to a computer or television. Both brightness and color balance need be adjusted. This can be accomplished by taking a picture of something with a lot of variation in color and brightness and setting the LCD to match the playback.

Exposure – Manual

While it seems logical that the auto exposure setting would give the best results, adjusting the exposure manually will give more consistent and accurate results.

Focus – Manual - set at infinity

The Xmount is designed so that when the camera is set at infinity and the scope is parfocused the plane of focus of the camera will be the same as the eye. Focus can then be judged through the eyepieces or the monitor. Do not use the autofocus mode.

White Balance – depends on light source

The white balance on the Sony DVR- PC100/110 is not as sophisticated as the better still digital camera, so it is more difficult to get accurate color reproduction. There seems to be only two settings; an indoor (3800°) and an outdoor (5800°). Use AUTO unless the pictures are off color and then try both settings to see which one works best.

Menu Mode Settings

Program AE – Not applicable since exposure and focus will be set manually.

P Effect – Off unless you have a reason to use it.

White Balance – See above.

Auto shutter – On

Digital zoom – Off

16:9 Wide – Off, unless you have a reason to use it.

Steadyshot – Off, the Steadyshot feature does not seem to work on the microscope.

NightShot Light – Off

LCD – Brightness, and Color Balance: See above.

Image Quality – Super Fine or Fine: See camera manual for discussion.

Image size – 1152 x 864 – the highest resolution