

Guidelines for Capturing Linear Images

General guidance:

- White balance once at beginning of imaging session, then do not adjust light intensity on microscope again during that same session.
- Use camera exposure or shutter control to adjust image brightness.
- Use histogram to ensure all color channels are within the range (saturation = lost data!).
- Do not adjust contrast, saturation, hue or gamma unless such guidance is provided below.


Software and version: Zeiss AxioVision (release 4.x)

Camera(s): Zeiss AxioCam MRc5 / AxioCam 503 color / AxioCam 506 color

Recommended Acquisition Settings

Ensure that HDR (high dynamic range) is disabled.

Software path: Acquisition > HDR > HDR Mode

Choose the “Linear” button in the camera properties window or “Linear” icon  at the bottom of the live image window.

In the Properties dialog > Display tab, ensure that Brightness, Contrast and Gamma are at the default setting by clicking [Restore].

There are two options for saving a linear image:

- Save the image in the Zeiss .zvi format, then export a .tiff or .jpeg later. When you export the image, be sure the “Apply display mappings” check box is NOT selected (see below).
- Save the image directly from AxioVision as a .tiff or .jpeg image. Any adjustments that were made to the image display window in the software will be saved to the image.

