

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: Olympus cellSens v1.x (Entry, Standard, Dimension)

Camera(s): Olympus DP25

Recommended Acquisition Settings

The default Gamma setting is 1.0, and the default Contrast setting is 1.3. A non-linear profile is applied to images by default, so the camera settings must be adjusted to offset the profile.

In Camera > Adjustment:

- Set Contrast to 1.0
- Set Gamma to 0.5

If this does not result in a “within tolerance” or “good” result for calibration matrix image linearity, continue to reduce the Contrast by small increments (e.g. 0.05).

DP25

