

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 DP27

Recommended Acquisition Settings

In cellSens, the DP27 has 3 color modes: High Fidelity, Normal, Cell Culture. Use High Fidelity.

In cellSens, the DP27 has 3 contrast modes: 0, 1, 2, which correspond to low, normal, high contrast, respectively. Use “2” for High Contrast.

If a “within tolerance” or “good” result is not achieved for the calibration matrix image linearity, you may wish to add or subtract color channel intensity – NOTE: these changes will be applied to all acquisitions during that imaging session.

- Process > Enhancement > AdjustRGB
 - This will not change slope, rather moves the channel intensity up or down, depending if you add or subtract.
 - Adjustment of only 1-2 points is generally sufficient.

DP27

