3Flex for Post Production

3Flex Stereo Image Processor Analysis Setup For Post Production Including QC/Editing/Correction
1. 3Flex Stereo Image Processor Analysis Setup For Post Production

This tutorial covers the essential functionalities within the 3Flex Stereo Image Processor (SIP) needed to examine pre-captured footage for misalignments, depth discrepancies, and convergence settings. Using external applications such as Dashwood, Cineform or a Quantel Pablo, you will be able to alter these analytics to affect and correct your final image.

Setting up your SIP and 3Flex
Make sure your SIP is connected to an image stream on your network
Open the 3Flex Control Center on the machine from which you will be controlling the SIP.

Device Configuration > Input Mode
Set the appropriate setting for either
Multiplexed SBS (muxed Side-by-Side; SDI into either Left OR Right input)
or
Stereo YCbCr (Full Frame LE/RE; sdi into each Left and Right input)

Above screenshot illustrates the setup for Multiplexed (SBS) content:

Input Mode > Input Channel
Choose Auto if you are connecting a single muxed cable; the system will detect the input
Left, Right if you are connecting cables into each SDI input.
Viewing Options
Connect Monitor via SDI or DVI to Mix input on back of SIP

Settings > Overlay
Make selections here to set your display values.

Settings > Overlay > Global Settings > Overlay
Your other option is Clean, which removes all overlays from your screen.

Settings> Overlay> Text Overlay > Advice > Both
This setting provides you with the most alignment information, including:
- Y shift (in pixels)
- Zoom mismatch (in percentage)
- Vergence (this is where you’re converged)
- Rotation (in degrees)
- Confidence (This very important number determines how much you can trust your other analytics)

Showing you Text Overlay > Advice > Both
Settings > Output
Set up your desired output. This configuration screen allows you to direct your SDI, DVI and Mux outputs. Define the MIX output under the MIX output options tab when you have chosen where to direct your DVI and HD-SDI output.

**HD-SDI Output:** Set to Mix 1 or Mix 2 (depending on where you are directing your HD SDI Mix)

**MIX Output Options:**
If you have Mix 1 selected for your HD-SDI output, assign a view from the drop-down menu that you would like to see for that output setting.

Settings > Reticules
Vertical Lines provide a quick way to see your background deviation. We typically use 2% lines which allow us to see deviation from about 1%.
Screen View

Your screen should look something like this (though you will have an image rather than bars!):

Screen view showing Metadata, Prep, Shoot, SIP name, Vertical lines, Info windows
2. Correcting your footage

Establish near/far limits to determine your boundaries for near (negative parallax) or far (positive parallax).

**Geometry > Basic Settings**

You’ll notice presets for TV (assumes a 46 inch diagonal), Theater (assumes a 20-foot screen), Imax (assumes an 80-foot screen) etc.
Set your preset to **Manual** and change the values according to the settings you have determined for good stereo 3D broadcast. These values affect the depth graph (Settings > Overlay > Advice > Shoot), whose colors change according to the limits you set.

In your editing application of choice, adjust the geometry of your shots while watching the output readings on the SIP. Dial in your corrections until you reach as close to zero as possible on all alignments. Remember to watch your **Confidence Value** (Prep menu on the bottom left of your screen). The number must stay around 90% to represent accurate readings.

*Note: Confidence is only at 65%, values may not be accurate. Depth bar shows positive parallax of 3%*
Import your footage

Import your Footage into Final Cut Pro. (This example uses Multiplexed Side By Side footage). Apply the Dashwood Stereo 3D Toolbox Filter onto your SBS footage.

Adjust your input and output settings as necessary.
This example uses SBS for input and output (for passive polarized displays).
Check your footage. If Left and Right eyes are reversed (pseudoscopic), mark the Swap Input box.
While the preview mode can be adjusted, the Monochrome Anaglyph mode works fairly well.
Now that your SIP is connected, and your editing software is configured, you are ready to correct your footage...

Watch your SIP Mix Output and dial in your alignments until your values reach as close as possible to Zero. Always remember to keep an eye on your confidence levels.

All controls in Dashwood can be keyframed. You may find this necessary for some shots.
Logging Data

In the 3Flex Control Center, select the SIP you are working on > File > DataLog

Select Configure

Move those analytics you would like to use.

Save to a file you name

Click OK
DataLog Graph

Graph’s values will be saved to an XML or HTML file. You are able to import these values to a data reader of your choice.

Any questions please contact us at:
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