



Meet - "The Fairburn" - the ultimate 3-D alignment tool

We are grateful to Sean Fairburn for his invaluable input in the design of this new test pattern, developed to assist in the precision alignment of 3-D camera systems.

DSC's major technological breakthrough over typical test charts is precision and increased dynamic range. In addition to DSC's patented grayscale and color elements, the Fairburn provides many unique features specific to 3-D. DSC charts are designed to produce familiar electronic displays that are easily interpreted using standard waveform monitors and vectorscopes. In production, a few frames shot on set provide invaluable information in post.

Focus Fans - in corners - maximum contrast for ease of viewing, even in low light

Horizontal/Vertical Alignment - large white cross and smaller white targets

Zoom Ring - large diameter, line five pixels wide - use to identify size disparity between cameras

Horizontal Scales - in cm and inches - for exact IO offset at parallel

Keystone Correction - saturated colored balls with white borders

18% Gray Chips

Red R - shows image flip or flop orientation

Blue L and Red R - color coding and eye reference (Blue=Left, Red=R)

LEFT and RIGHT words - on white lines, use for orientation

Vertical Scales - on far right and left - to measure horizontal and rotational offset.

Arrows Up and Right - use for orientation

Mini Gray Scales - steps 1, 6 and 11 with DSC true black background

Center Cross with Fans - for zoomed in focus check

"ChromaDuMonde" Color Chips with Skin Tones - hexagon shape to match vectorscope signals

3D Alignment Test Pattern
DSC Labs - CamAlign - CDM - Fairburn 3-D - v10.2
©2010 DSC Laboratories
Fairburn 3-D - SRW-v10.2
LEFT RIGHT
cm
Inch
Recommended upgrade July 2011
DSC Laboratories www.dsclabs.com SN SRW10066401 Tel: (905) 673-3211

We believe you will find this chart invaluable in aligning 3-D camera systems - some basic principles follow:

First, align cameras so that images match exactly for grayscale levels, tracking and color reproduction. Next, adjust horizontal, vertical and rotational positioning, image size, focus distance, resolution etc. When superimposed, images from the cameras should match identically. Once this is achieved, interocular and convergence offsets can be made with greater confidence.

Quick alignment checks made and recorded during prep and from scene to scene on the set can be invaluable in providing points of reference between cameras for use in Post. Important non-chart related items to consider for effective 3-D production are:

Genlock, shutter sync, using the same length cables from cameras to recorders, switchers and monitors, also a good script helps.

For additional information on The Fairburn, please contact DSC Laboratories at:
Tel. 905.673.3211 - e-mail dsc@dsclabs.com - website www.dsclabs.com

QMF26
Issue 1
January 9, 2006