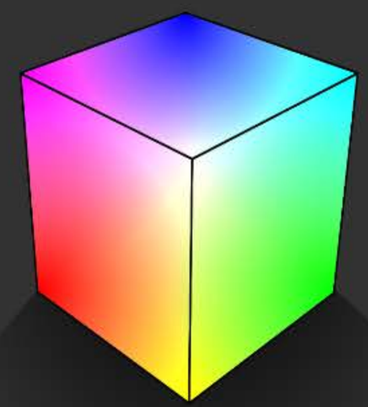
Welcome to the HT Enthusiast Extended Workflow



Featuring ...

- Home layout outlines the workflow structure with full access
- Comprehensive notes management
- Integrated session setup and hardware configuration layout
- Single layout takes all desired Pre- or Post-calibration readings
- Expanded Multi-Point Grayscale calibration and pre/post-cal chart & datagrid layouts
- Detailed Saturation Sweep calibration and pre/post-cal chart & datagrid layouts
- Detailed Gamut Luminance calibration and pre/post-cal chart & datagrid layouts
- Detailed Color Check calibration and pre/post-cal chart & datagrid layouts
- 3D Color Cube LUT calibration chart & datagrid layouts
- High-count calibration points friendly

Also featuring navigation for the Mouse Lazy ...

- Navigation bar shows where you are and takes you where you want to go
- Calibration scheduling function is integrated with the Nav Bar Next/Back buttons
- Toggle buttons switch between complementary layouts with one click:
  - between the Calibration layouts and their corresponding Datagrid
  - between the Pre-Calibration Readings and Post-Calibration Readings
  - between corresponding Pre-Calibration and Post-Calibration Details
  - between corresponding Post-Calibration Details and Datagrids
  - and more!

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Workflow Description

Simulated Meter LCD Direct View | Source | Direct Display Control

WORKFLOW OVERVIEW

The HT Enthusiast Extended Workflow aims at providing all the possible calibration options in an accessible user-friendly manner.

The workflow is divided into four sections or zones with a corresponding color for the three working zones.

1) ▶ Introduction: Provides general information about the workflow and its features, and random access to all layouts

2) ▶ Preparation Zone: Enter session and device setup information , take pre-calibration readings for reference, plan the dynamic aspects of the session (contrast, brightness, etc.)

3) ▶ Calibration Zone: Contains the calibration layouts with matching datagrids, and the post-calibration readings layout for all views except the 2-Point Grayscale and 3D Color Cube LUT

4) ▶ Analysis Zone: Has detailed charts and datagrids for all views in the pre- and post-calibration states (except the 3D Color Cube LUT which feeds off the calibration layout) and a final check layout for dynamic range fine-tuning with a session summary

ACTIVE CALIBRATION VIEWS

- 2-Point Grayscale
- Multi-point Grayscale (tabbed Full-feature, Simple and Minimal)
- Saturation Sweeps, also used for basic CMS calibration
- Gamut Luminance
- Color Checker
- 3D Color Cube LUT (tabbed Full-feature and Minimal)

- Use Simple or Minimal layout tabs for hopefully faster AutoCal.
- All active calibration layouts except 2-Point have corresponding detail datagrid layouts accessible via the ↑dta buttons.
- Use the Slim high-content Color Checker datagrid for faster processing of hundreds of colors.

ANALYSIS CHARTS

Except the 2-Point Grayscale and 3D Color Cube LUT, there are pre-calibration and post-calibration detail chart layouts for each active calibration view.

You can toggle between them by clicking the ↑PreCal or ↑PstCal button in the Nav Bar (they super-impose when the layout switches so just keep clicking to go back and forth). Other ↑ buttons in the Nav Bar perform similar toggling duties.

Unlike in the other color views, the CIE chart in the Color Checker pre- and post-calibration chart layouts is a display option accessible by checking the CIE Chart option.

Supplementing the charts are analysis datagrid layouts with both pre- and post-calibration data for each active calibration view. You can acces them using the ↑Data buttons with a similar toggle arrangement as the ↑PstCal button.

KEY LAYOUTS

Home - has a layout map for getting the lay of the land and a fully loaded navigation matrix for acces to all layouts.

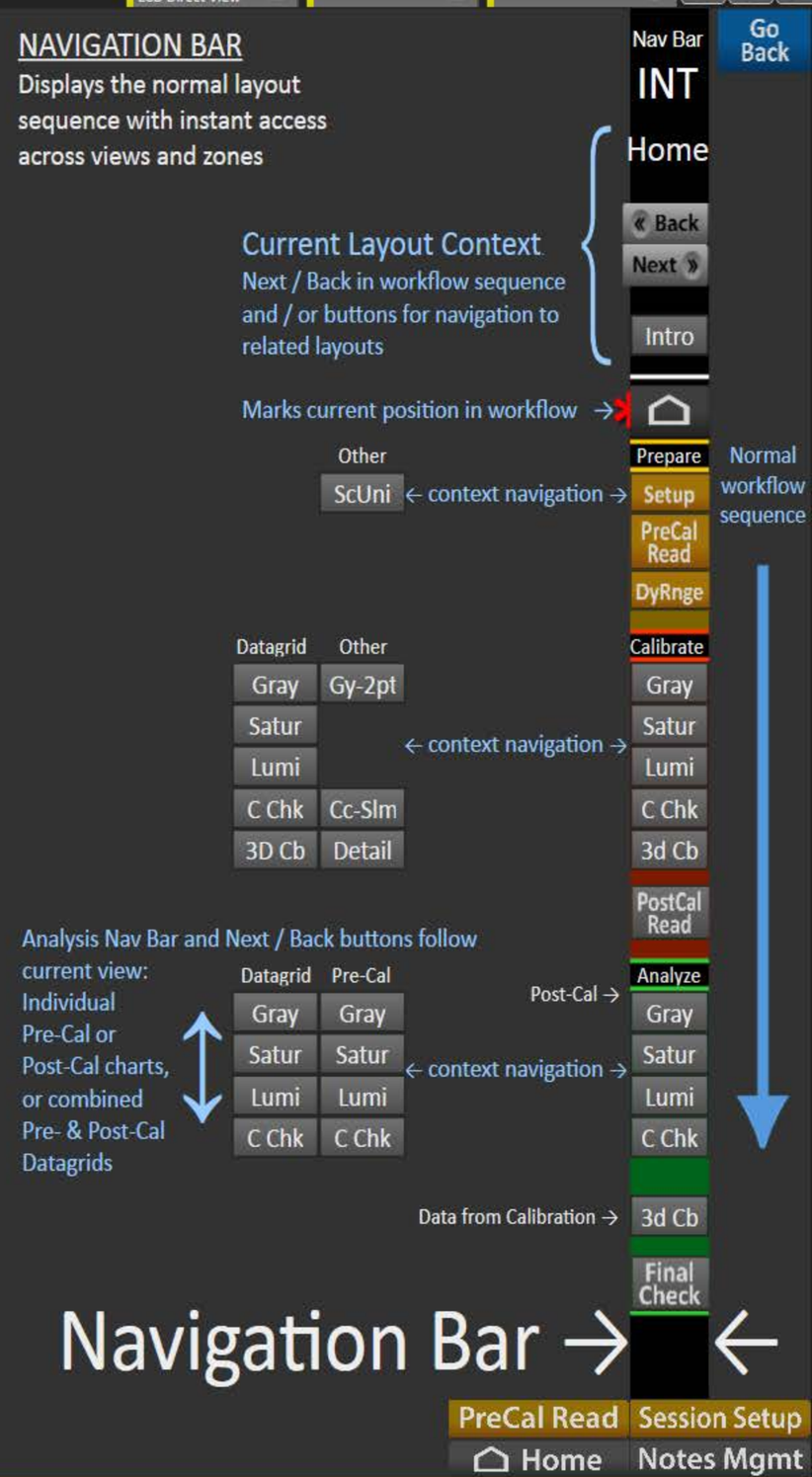
Session Setup - Integrates calibration options, initial settings & notes, and hardware/device configuration.

Pre-Calibration Readings, Post-Calibration Readings - these identically configured layouts are master controls for the pre- and post-calibration states with combined and selective reading of all views. They feed all the detail charts and datagrids. You can toggle between the pre- and post-cal reading layouts, and between a reading layout and its corresponding detail layouts, in the Nav Bar (↑PreCal and ↑PstCal) and the explicit toolbar buttons.

Final Check - Analyzes and fine-tunes the dynamic range aspect and provides a comprehensive calibration summary.

NAVIGATION BAR

Displays the normal layout sequence with instant access across views and zones



CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Introduction: Home

Simulated Meter LCD Direct View | Source | Direct Display Control

12/27/2014 Calibration

HOME

Workflow Layout Structure

– Introduction –

→ Prepare ←

↓ Calibrate ↑

← Analyze →

CalMAN 5

▶ Preparation (PRP)

1 ▶ Session Setup → Screen Uniformity

2 ▶ Pre-Calibration Readings
Feeds Pre-Cal charts #11-14

3 ▶ Dynamic Range Analysis

▶ Calibration (CAL)

4 ▶ 2-Point Grayscale Calibration

5 ▶ Multi-Pt Grayscale Calibration → Datagrid
Full, Simple and Minimal versions

6 ▶ Saturation Sweeps Calibration → Datagrid
For basic CMS Gamut calibration use Saturation Sweeps set to 75% or 100% Only

7 ▶ Gamut Luminance Calibration → Datagrid

8 ▶ Color Checker Calibration → Datagrid (normal & slim)
Use Slim datagrid with high # of colors

9 ▶ 3D Color Cube LUT Calibration → Datagrid
Full and Minimal versions, feeds Detail Charts #15

10 ▶ Post-Calibration Readings
Feeds Post-Cal charts #11-14

▶ Analysis (ANL)

11 ▶ Multi-Pt Grayscale Post-Cal Charts → Pre-Cal Charts → Datagrids

12 ▶ Saturation Sweeps Post-Cal Charts → Pre-Cal Charts → Datagrids

13 ▶ Gamut Luminance Post-Cal Charts → Pre-Cal Charts → Datagrids

14 ▶ Color Checker Post-Cal Charts → Pre-Cal Charts → Datagrids

15 ▶ 3D Color Cube LUT Calibration Detail Charts (2 tabs)

16 ▶ Final Check + Summary – Fine Tune the Dynamic Range

INT
Home
Back
Next
Intro
Prepare
ScUni
Setup
PreCal Read
DyRnge
Calibrate

Datagrid	Other	Calibrate
Gray	Gy-2pt	Gray
Satur		Satur
Lumi		Lumi
C Chk	Cc-Slm	C Chk
3D Cb	Detail	3d Cb

PostCal Read

Datagrid	Pre-Cal	Analyze
Gray	Gray	Gray
Satur	Satur	Satur
Lumi	Lumi	Lumi
C Chk	C Chk	C Chk

Post-Cal

3d Cb Cal

Final Check

Home

PreCal Read | Session Setup

Back | Notes Mgmt

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Notes Management

Simulated Meter LCD Direct View | Source | Direct Display Control

Setup Notes

Calibration Notes

Pre-Calibration Notes

Calibration Description / Goals

Color Notes

Post-Calibration Notes

REF

Notes

Intro

Prepare

Setup

PreCal Read

DyRnge

Calibrate

Gray

Satur

Lumi

C Chk

3d Cb

PostCal Read

Analyze

Gray

Satur

Lumi

C Chk

3d Cb

Final Check

Notes

PostCal Read | Session Setup

Home | Final Check

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Session Setup | Setup Help

Simulated Meter LCD Direct View | Source | Direct Display Control

Session Setup

12/27/2014 Calibration

(A) Session Options

Start New Session | Session Info | More Options

Setup Notes

Calibration Description / Goals

Big

Luminance Unit: fL

Input Level: Video (16-235)

Stimulus Unit: Percent

DeltaE Formula: dE2000 JNDab

Gamut Coordinates: D65, HD Rec.709

Gamma Formula: ITU BT.1886

Display • PRO-70X5FD

Target cd/m2 Black	White	Target Gamma
0	100	1

(B) Display Settings

AV Mode: ISF Day

				Cut	Gain
Color Temp		Contrast			
Sharpness		Brightness		Red	
Color		Backlight		Green	
Tint		TV Gamma		Blue	

(C) Hardware Configuration

① Meter — Find → Configure

CalMAN Simulated
Profile : None

Mode

② Source — Find → Configure

Optical player or standalone generator (manual cont
Optical player or standalone generator

Pattern Size: Full 100%

Triplet Support: FullTriplets

③ Display or Processor — Find → Configure

None

Display Slot

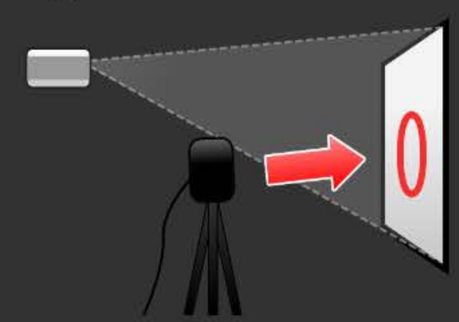
Data Points

DDC

(D) Meter Setup

Position the meter as required for (1) projector or (2) flat panel to insure accurate measurements, (3) taking appropriate readings.

① Projector

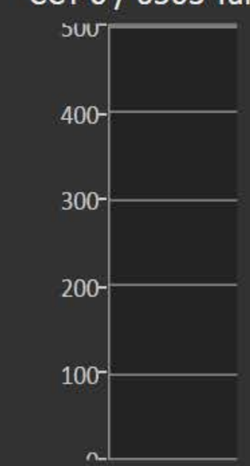


② Flat Panel

③ Readings

Y Max / Min fL
29.19 / 0

CCT 0 / 6503 Target



Screen Uniformity

PRP Setup | Back | Next | ScUni | Prepare | ScUni | PreCal Read | DyRnge | Calibrate | Gray | Satur | Lumi | C Chk | 3d Cb | PostCal Read | Analyze | Final Check | Setup

0 | 100

Home | Next | Notes

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Session Setup | Setup Help

Simulated Meter LCD Direct View | Source | Sharp Elite ISF Day

Session Setup

12/27/2014 Calibration

(A) Session Options

Start New Session | Session Info | More Options

Setup Notes

Calibration Description / Goals

Big

Luminance Unit: fL

Input Level: Video (16-235)

Stimulus Unit: Percent

DeltaE Formula: dE2000 JNDab

Gamut Coordinates: D65, HD Rec.709

Gamma Formula: ITU BT.1886

Display • PRO-70X5FD

Target cd/m2 Black	White	Target Gamma
0	100	1

(B) Display Settings

AV Mode: ISF Day

				Cut	Gain
Color Temp		Contrast		Red	
Sharpness		Brightness		Green	
Color		Backlight		Blue	
Tint		TV Gamma			

(C) Hardware Configuration

1 Meter — Find → | Configure

2 Source — Find → | Configure

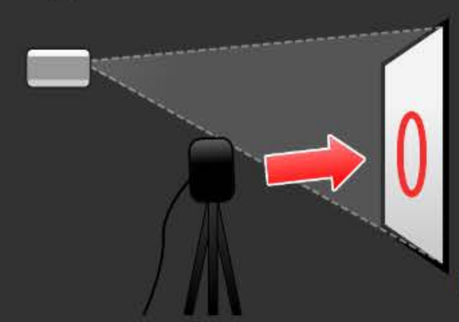
3 Display or Processor — Find → | Configure

DDC

(D) Meter Setup

Position the meter as required for (1) projector or (2) flat panel to insure accurate measurements, (3) taking appropriate readings.

1 Projector



Display Controls

Brightness	0
Contrast	80
Color	0
Tint	0
Sharpness	2
Color Temperature	Low
Gamma	0
Backlight	17
Gamut Range	Standard
Motion ENhancement	Off
Precision Color Plus	
Active Contrast	
Film Mode	Off
Digital Noise Reduction	Off

PRP Setup | Back | Next | ScUni | Prepare | ScUni | PreCal Read | DyRnge | Calibrate | Gray | Satur | Lumi | C Chk | 3d Cb | PostCal Read | Analyze | Final Check | Setup

0 | 100

Home | Next | Notes

Go Back

Setting Up the Session

(A) Enter the session description & calibration options in the corresponding drop-downs and text boxes

- Click [Session Info] to enter additional information
- Click [More Options] to open the options panel - the red [X] can be used to close it
- Click the checkmark above/below [Big] to expand the note next to it

(B) Enter the initial display settings to use for the calibration in the corresponding boxes - you can provide alternates in the Pre- and Post-Calibration layouts

(C) Find and configure the appropriate (1) meter, (2) source and (3) display devices - more info on right ⟶

(D) Position the meter as required. You can now read the Level 0 (Black) and Level 100 (White) luminance and corresponding CCT based on current settings - more info on right ⟶

(C) Hardware Configuration

1. To start calibrating your display/processor, first connect your meter.
   a) Click the meter [Find] button and select your meter.
   b) Select the Target Display Type.
2. Connect to your reference pattern source generator.
   a) Click the source [Find] button, and select your Source.
   b) Select the pattern window size and resolution.
3. Connect to your display/processor.
   a) Click the display [Find] button and select your display or processor.
   b) Click [DDC] to show the Direct Display Control panel when appropriate
4. Click the corresponding [Configure] button for more options.

Go Back

(D) Meter Positioning

1a. For projectors position the meter facing the projection screen, far enough away from the screen to avoid reading the meter's own shadow (see illustration on the left). Continue to take readings.

1b. Press the read continuous button to take measurements of a white window while moving the meter up/down/left/right, until the Y Max reading is largest. When Y Max is highest, click *Stop*.

2. For flat panels position the meter on the center of the screen (see illustration on the right). You do not need to take readings for this placement.

3. You can also read the White level CCT based on the current settings - adjust the display's color temperature to best match the target CCT.

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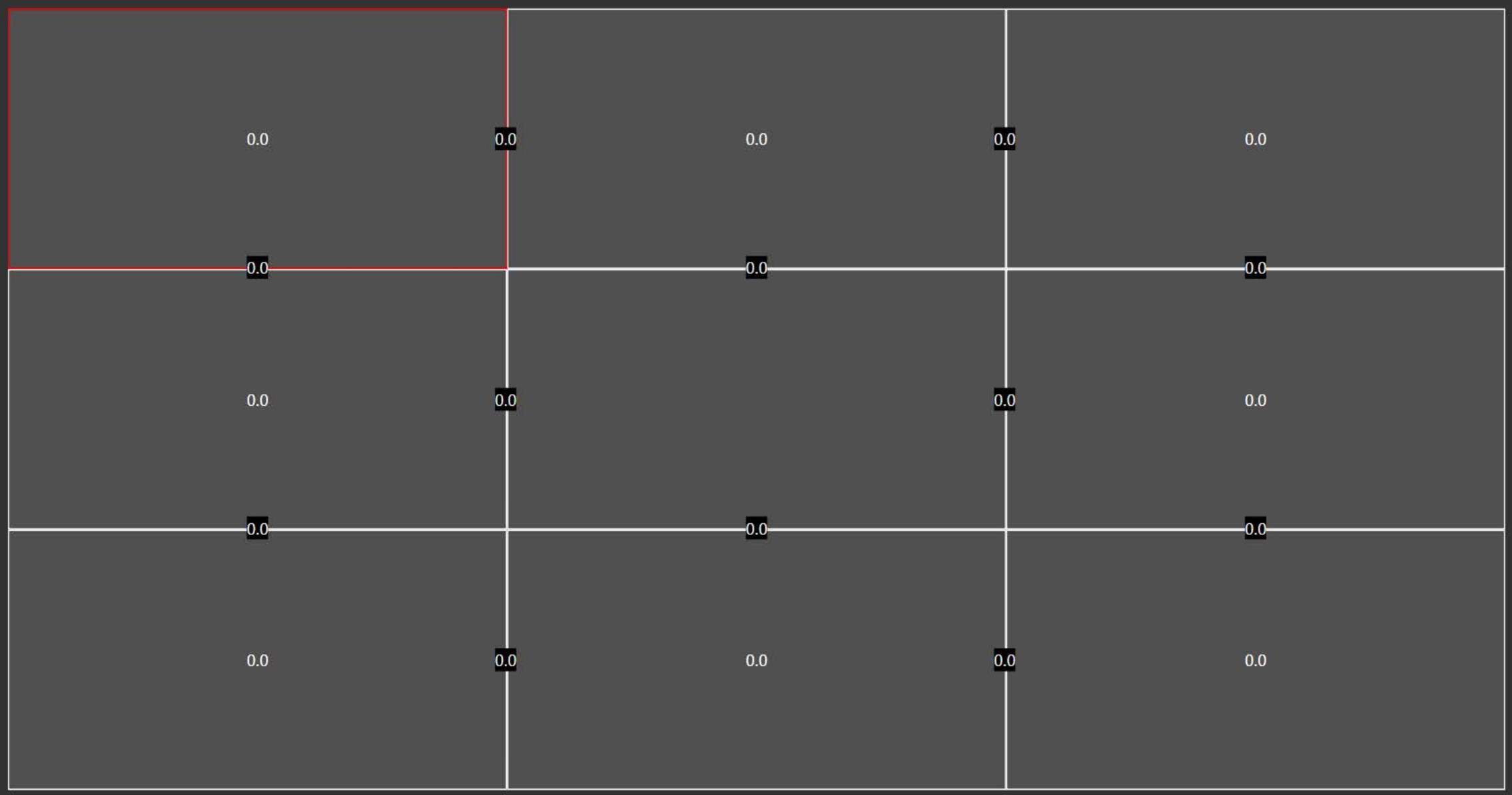
Screen Uniformity

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

Screen Uniformity



PRP

ScrUn

SetUp

Prepare

SetUp

Calibrate

Analyze

Session SetUp

PRP

30

100

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Pre-Cal Readings

Simulated Meter LCD Direct View | Source | Direct Display Control

Pre-Calibration Readings

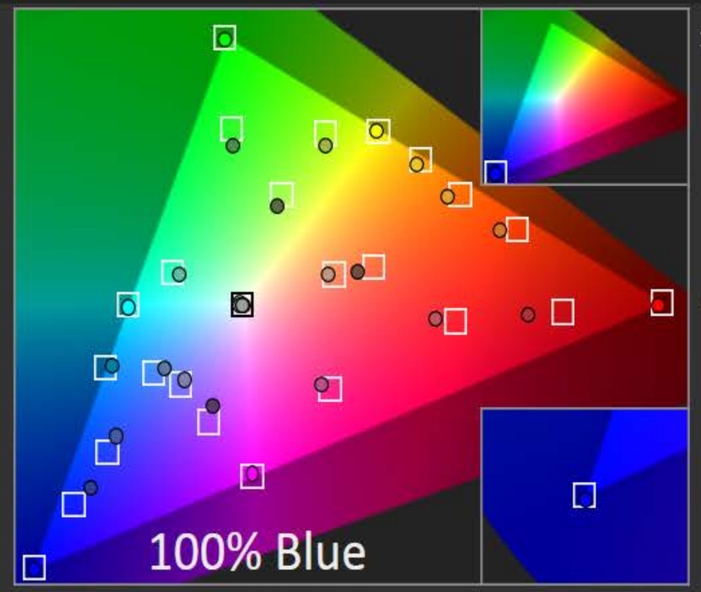
12/27/2014 Calibration

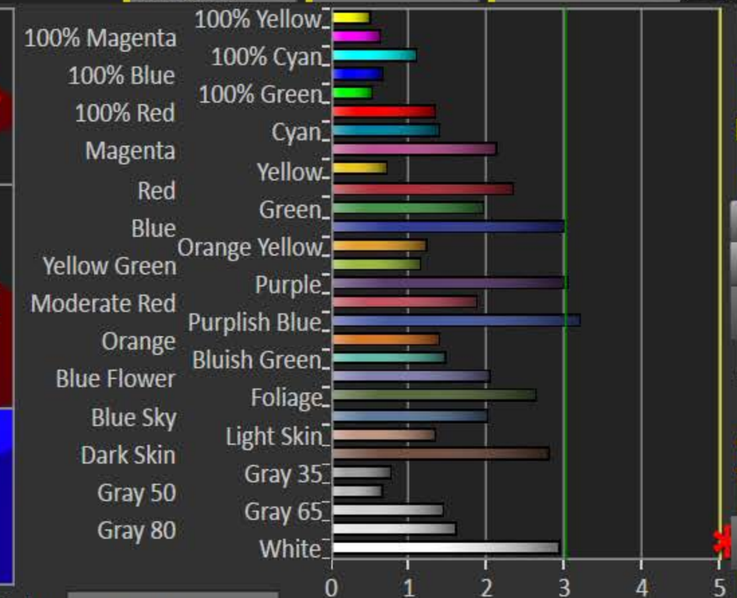
Gamma Breakout Tot 2.23 Y Min 0 Y Max 23.8

1 Grayscale

Full Charts | 20 Point 5% step 5-100% | 100 | Avg 2.34 Max 3.8

DeltaE 2.94





4 Color Checker

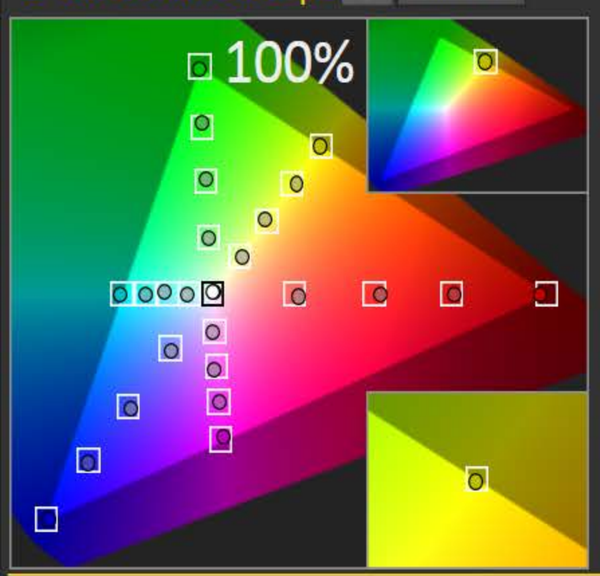
Full Charts | Add Custom Color Set → | SG Fleshtones

DeltaE 0.66 Avg 1.66 Max 3.21

2 Saturation Sweeps

Full Charts | 25% Sweeps | Avg 0.92 Max 1.95

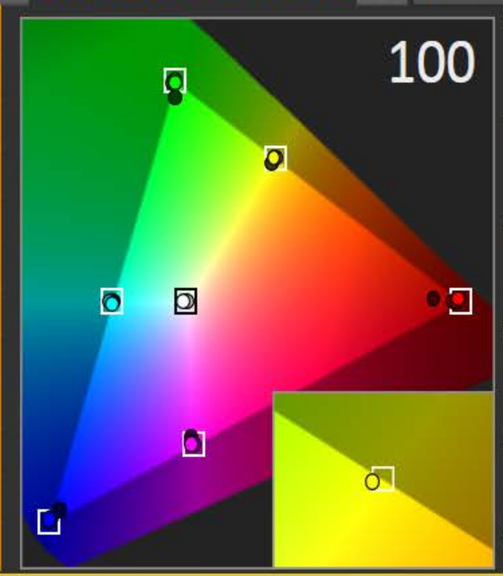
DeltaE 0.51



3 Gamut Luminance

Full Charts | 4 Point 25% step 25-100% | Avg 1.45 Max 3.88

DeltaE 0.7



Select Base Colors

Populate CMS for HT report

PRP PreCal Read

Back | Next | PostCal Read | Prepare | Setup | PostCal Read | DyRnge | Calibrate | Gray | Satur | Lumi | C Chk | 3d Cb | PostCal Read | Analyze | Gray | Satur | Lumi | C Chk | 3d Cb | Final Check | PreCal

ISF Day

Pre-Cal Readings

Contrast | Brightness | Backlight | TV Gamma | Color | Tint | Red Green Blue | Gain | Cut

Pre-Cal Notes | Big

Display Slot

Use [···] mid-screen or below to read all series or select one from the individual series above

Back | Next | Notes

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CalMAN 5

Dynamic Range

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

≡ Dynamic Range ≡

Overall Range

Adjust the Backlight control (for LED) to get the desired compromise between black and white levels: less Backlight = deeper black but lower white level, more Backlight = brighter white but higher black level too.

White Level

Data Points: select Clipping or Clipping with Peak White.

① Adjust the Contrast to maximize the white level without clipping any of the three primaries.

①

Gamma Level

Data Points: select a full set of grayscale points for this.

② Check the gamma level across the full grayscale based on the current settings, and adjust the display's gamma control to get a good match, tweaking with the Brightness for Black level & Contrast for White.

23 Point 5% step 0-109% ②

Calibration Notes

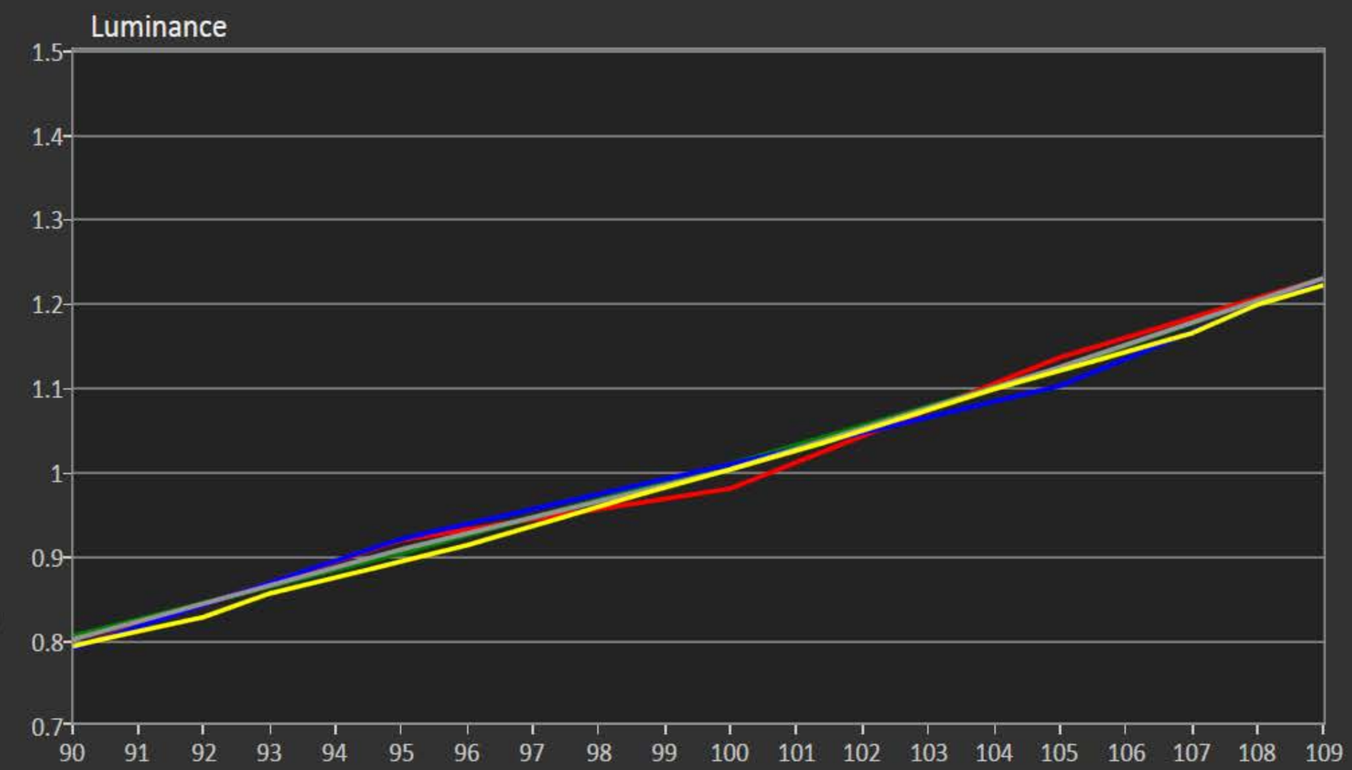
Big

Contrast

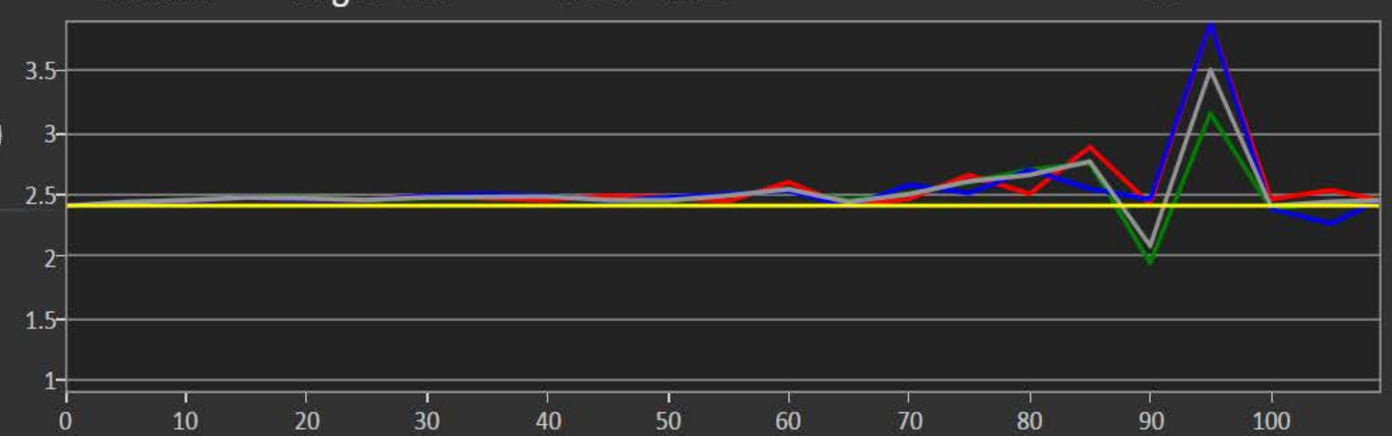
Brightness

Backlight

TV Gamma



Luminance in fL		White	23.8	100	23.8
Gamma	Target 2.4	Total	2.52		2.4



DIsplay Slot CMS 2

Click the Read All button [···] to read the Grayscale

PRP DyRng

Back | Next

Prepare | Setup | PreCal Read | DyRngs | Calibrate | Gray | Satur | Lumi | C Chk | 3d Cb | PostCal Read | Analyze | Final Check | DyRng

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 109

Notes | Back | Next

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

2 Pt Grayscale

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

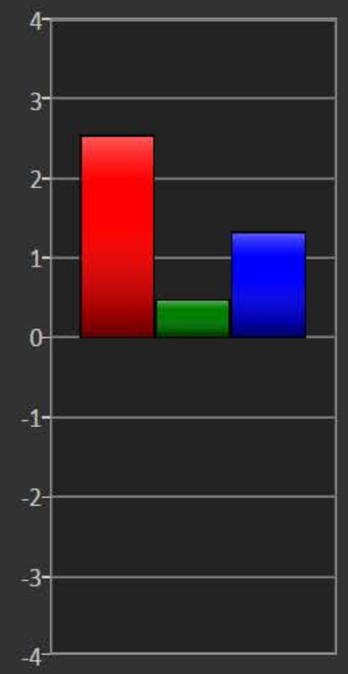
2-Point Grayscale Calibration

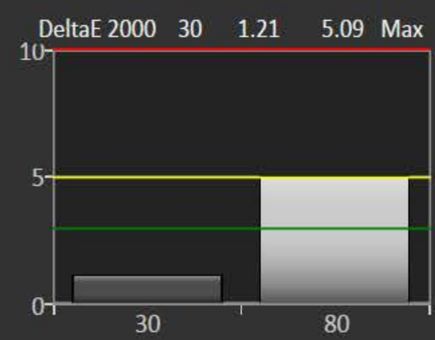
Grayscale 2-Point Adjust

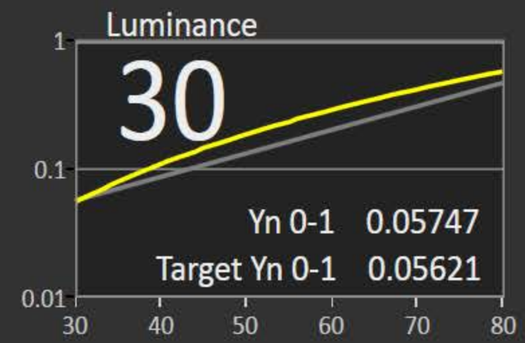
1. Reduce the Red, Green, and/or Blue (RGB) High controls to the lowest measured R, G, or B after the initial measurement of bright grayscale pattern. Continue doing this until you balance RGB to a deltaE of 3 or below (chart below).
2. Balance the RGB Low controls (if provided), while measuring a dark grayscale pattern.
3. Re-measure both bright grayscale and dark grayscale until both RGB High and RGB Low are balanced and DeltaE is under 3.

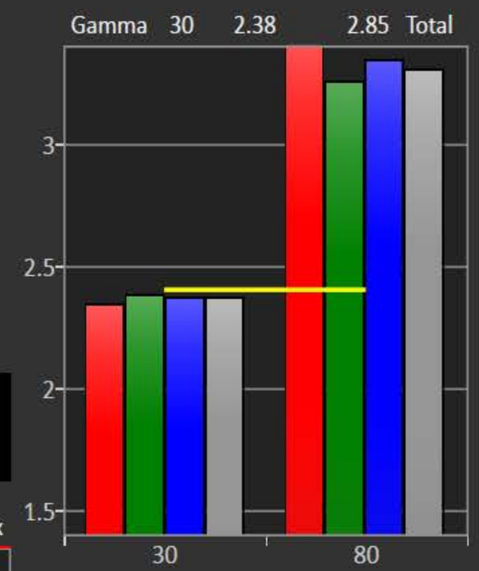
Selecting Points:

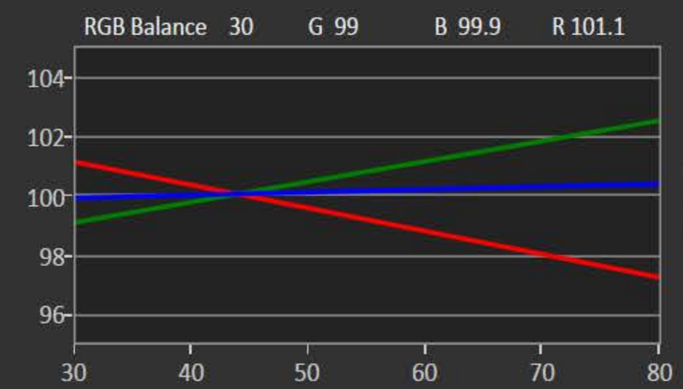
- ***30% and 80%:*** *Use these levels if you only have access to a two point grayscale adjustment*
- ***30% and 100%:*** *Use these levels if you will be completing a multipoint adjustment afterwards and do not have access to a Peak White pattern.*
- ***30% and Peak White:*** *Use these levels if your display does not clip and you will be completing a multipoint calibration and want the best possible results.*

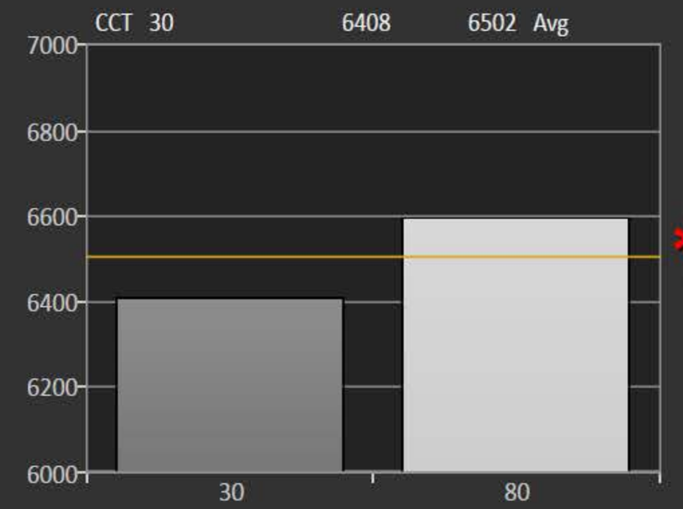










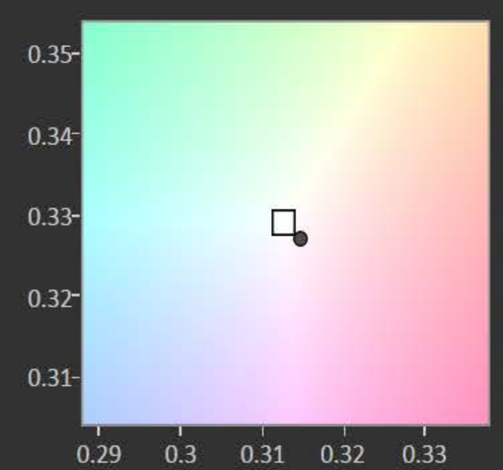


30			
	CC Temp	6408	6502 Avg
	Gamma	2.38	2.85 Tot
	dE 2000	1.21	3.15 Avg
			5.09 Max
White	29.19		

	Y / Luminance fL	x	y
Target →	1.64066	0.3127	0.329
Read →	1.67722	0.3147	0.327

2 Point 30,80%

Triplet
82, 82, 82



Calibration Notes

CAL Gray 2-Pnt | Back | Next | M-Pnt | Prepare | Setup | PreRead | DyRnge | Calibrate | M-Pnt | Gy dta | Satur | Lumi | C Chk | 3d Cb | PostCal Read | Analyze | Gy-Pst | Final Check | 2-Pnt | M-Pnt

30 | 80

Notes | Back | Next

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Grayscale Full | Grayscale Simple | Grayscale Minimal

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

MultiPoint Grayscale Calibration - Minimal

Use tabs to select layout level

Summary

Delta E	Avg	2.44
	Max @ 15	4.08
Gamma	Tot	2.16
	Tgt	2.4
CCT	Avg	6497
	Tgt	6503
White		23.32

Triplet 213, 213, 213	
Y in fL	Target = tgt
Y tgt	18.08748
	18.61137
x tgt	0.31271
	0.31271
y tgt	0.32901
	0.33102

RGB Balance

R 1.7 G 3.6 B 1.6

90

CCT 6489

Gamma 2.13

dE 1.65

CAL Gray M-pnt

Back | Next | Gy†2pt | Gy†dta

Prepare | Setup | PreRead | DyRnge | Calibrate | Gy†2pt | Gy†dta | Satur | Lumi | C Chk | 3d Cb | PostCal Read | Analyze | Gy-Pst | Final Check | M-Pnt | Gy†2pt | Gy†dta

Display Slot: CMS 2

Grayscale Points: 20 Point 5% step 5-100%

5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

Notes | Back | Next

CalMAN 5 CalMAN Enthusiast for Home Video

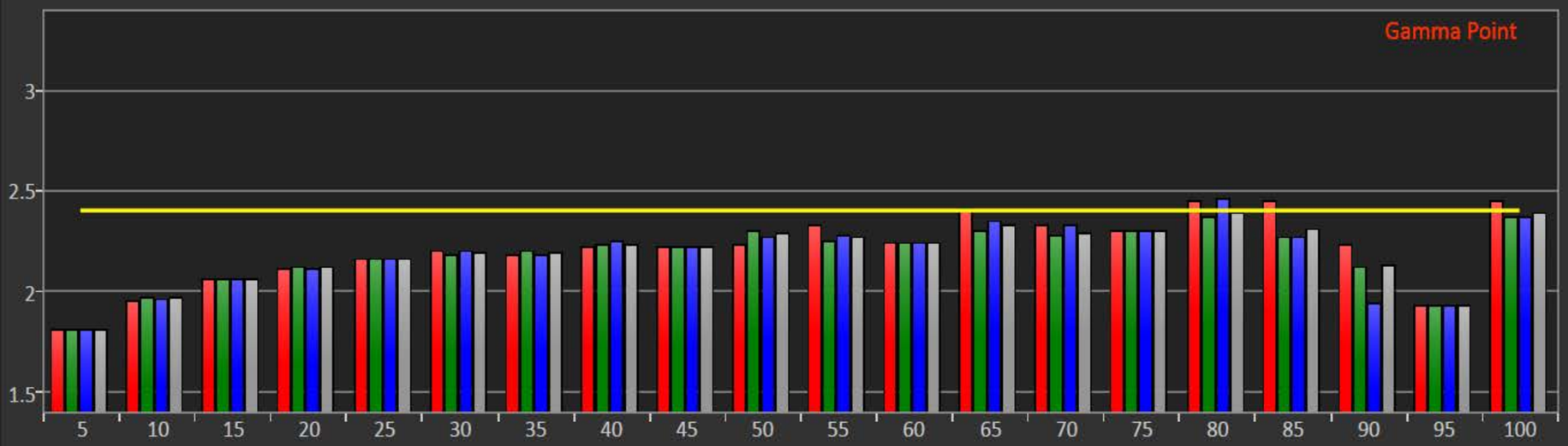
CalMAN 5

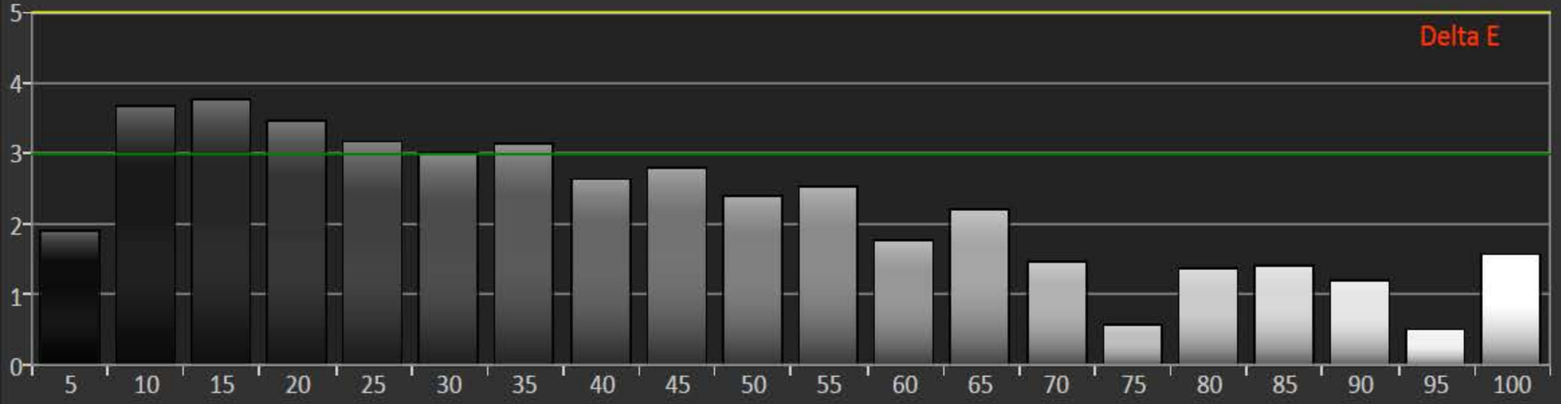
Grayscale Full | Grayscale Simple | Grayscale Minimal

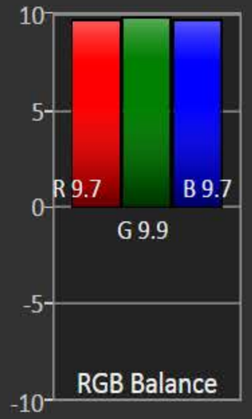
Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

MultiPoint Grayscale Calibration - Simple

Use tabs to select layout level







	Red	Green	Blue
0	0	0	0
5	5.5	5.6	5.2
10	10	10	9.6
15	15.1	14.9	14.3
20	20.1	20	20.1
25	25.2	25.2	25.1
30	30.6	30.4	30.4
35	35.3	35.4	35
40	40.4	40.4	40.6
45	45.6	45.6	46
50	50.4	50	50.4
55	55.9	55.4	55.5
60	60.8	60.4	60.5
65	65.7	65.4	65.6
70	71	70.4	70.8
75	75.8	75.4	75.3
80	80.8	80.5	80.3
85	85.8	85.3	84.9
90	90.8	90.3	90.2
95	95.8	95.7	95.9
100	100	100	100

Reset Grayscale

Summary

Gamma Tot 2.19
Tgt 2.4

Delta E Avg 2.25
Max @ 15 3.78

CCT Avg 6513
Tgt 6503

White 23.8

Triplet 27, 27, 27

Y in fL Target = tgt

Y tgt 0.01815
0.10434

x tgt 0.31271
0.31271

y tgt 0.32901
0.33102

5

CCT 6489

Gamma 1.82

dE 1.92

Display Slot CMS 2

Grayscale Points 20 Point 5% step 5-100%

CAL Gray M-pnt

Back | Next

Gy+2pt | Gy+dta

Prepare | Setup | PreRead | DyRnge | Calibrate | Gy+2pt | Gy+dta | Satur | Lumi | C Chk | 3d Cb | PostCal Read | Analyze | Gy-Pst | Final Check | M-Pnt | Gy+2pt | Gy+dta

5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

Notes | Back | Next

CalMAN 5 CalMAN Enthusiast for Home Video

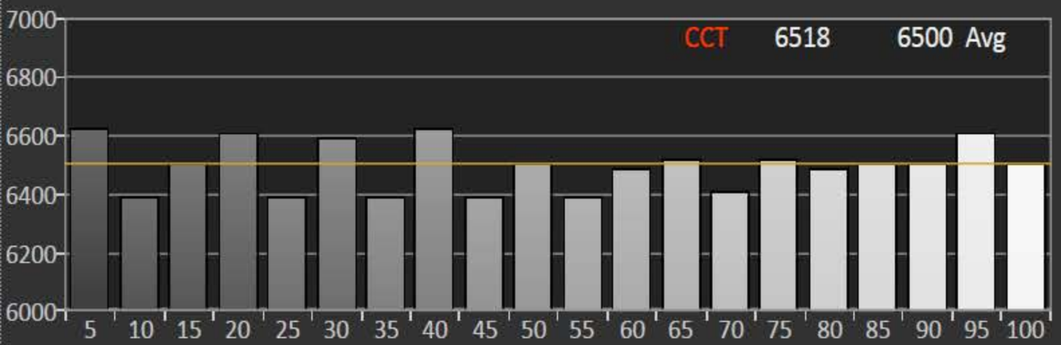
CalMAN 5

Grayscale Full | Grayscale Simple | Grayscale Minimal

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

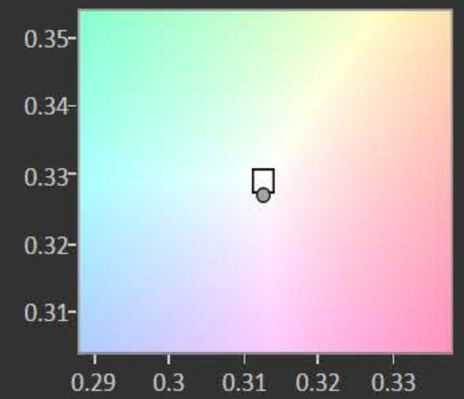
MultiPoint Grayscale Calibration - Full

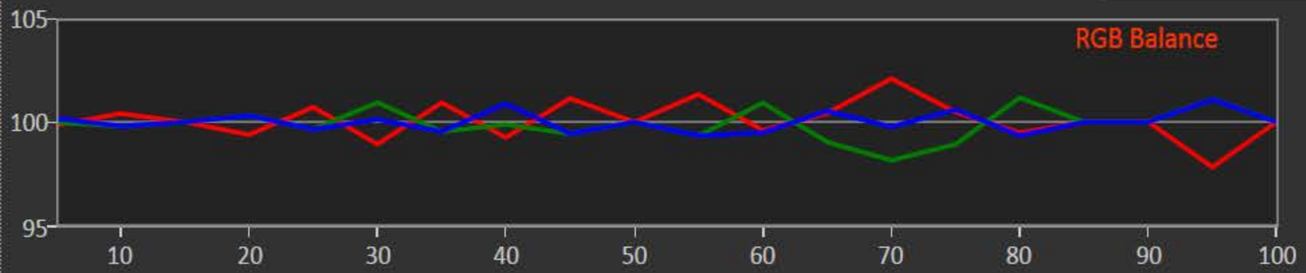
Use tabs to select layout level | Comparator | Notes | DDC | Logarithmic Y Axis

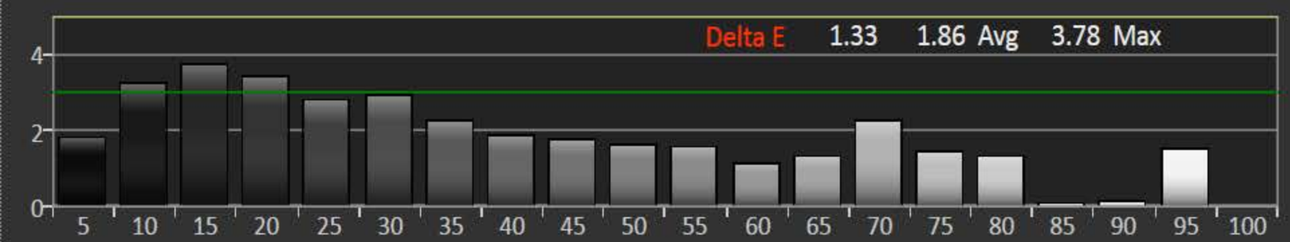


Triplet 158, 158, 158

Y in fL	Target = tgt
Y tgt	8.58075
	8.82007
x tgt	0.31271
	0.31271
y tgt	0.32901
	0.32702





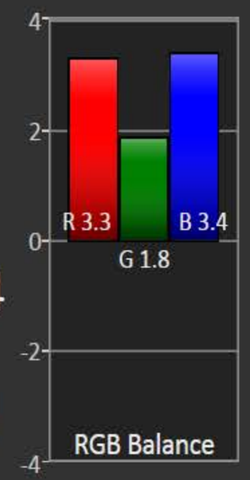


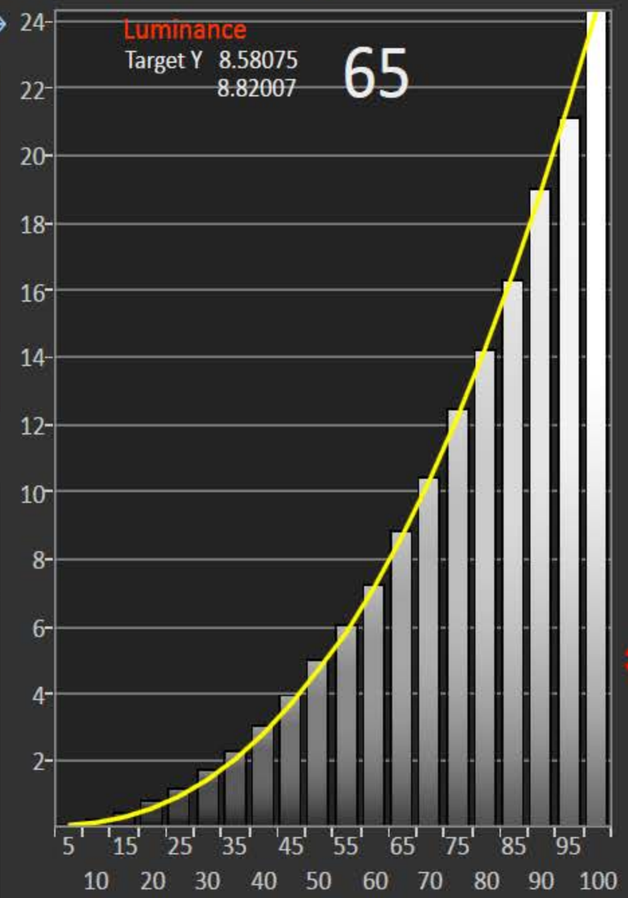
65

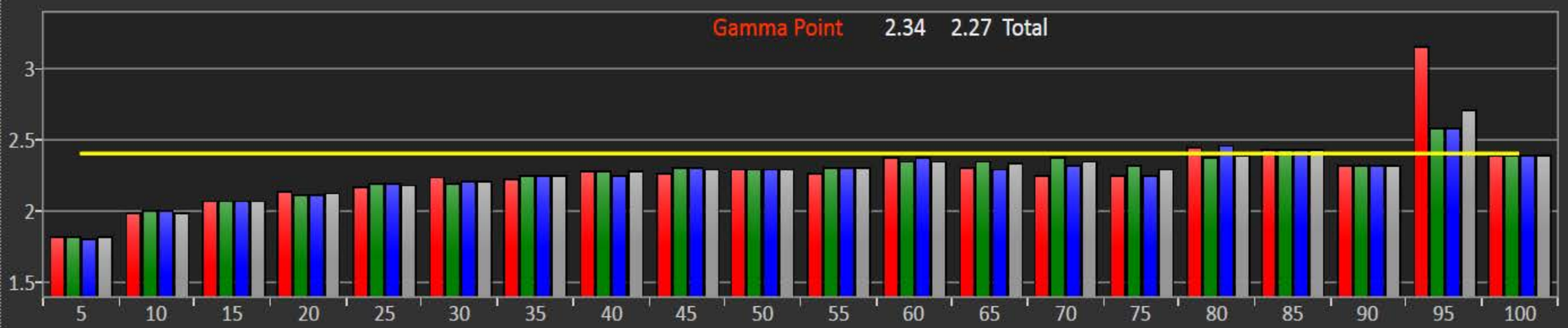
CCT 6518

Gamma 2.34

dE 1.33







Summary

Delta E	Avg	1.86
	Max @ 15	3.78
Gamma	Tot	2.27
	Tgt	2.4
CCT	Avg	6500
	Tgt	6503

White 24.27

Contrast Ratio : needs level 0 and 100 readings

Comparator | Notes | DDC

Display Slot CMS 2

Grayscale Points 20 Point 5% step 5-100%

CAL Gray M-pnt | Back | Next | Gy+2pt | Gy+dta | Prepare | Setup | PreRead | DyRnge | Calibrate | Gy+2pt | Gy+dta | Satur | Lumi | C Chk | 3d Cb | PostCal Read | Analyze | Gy-Pst | Final Check | M-Pnt | Gy+2pt | Gy+dta

Notes | Back | Next

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Grayscale Full | Grayscale Simple | Grayscale Minimal

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

MultiPoint Grayscale Calibration - Full

Use tabs to select layout level | Comparator | Notes | DDC | Logarithmic Y Axis→

Calibration Notes

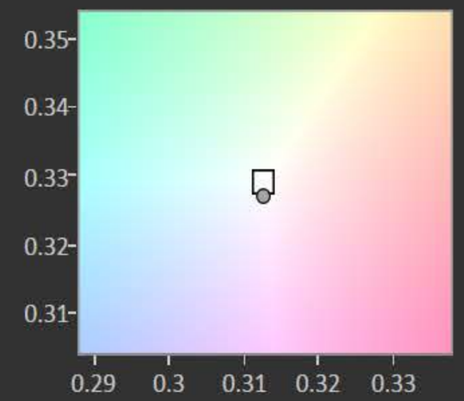
Post-Calibration Notes

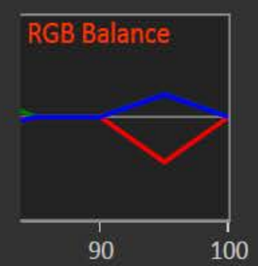
Calibration Description / Goals

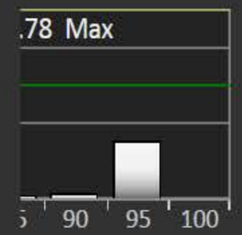
Big

Triplet 158, 158, 158

Y in fL	Target = tgt
Y tgt	8.58075
	8.82007
x tgt	0.31271
	0.31271
y tgt	0.32901
	0.32702





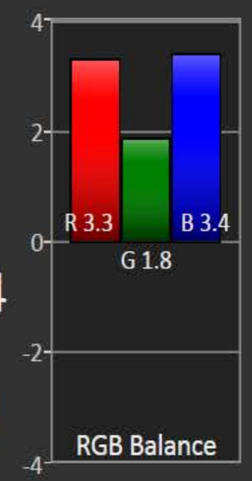


65

CCT 6518

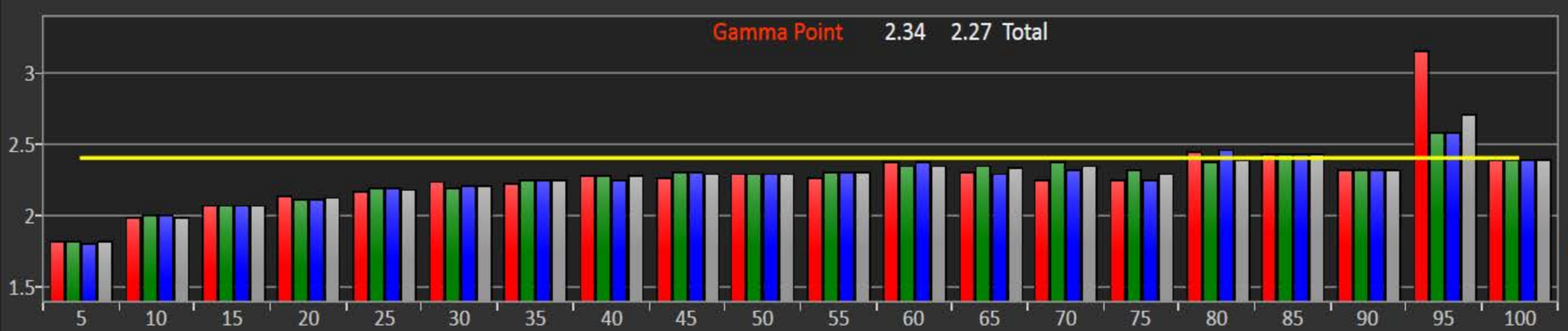
Gamma 2.34

dE 1.33



	Red	Green	Blue
0	0	0	0
5	5.5	5.6	5.2
10	10	10	9.6
15	15.1	14.9	14.3
20	20.1	20	20.1
25	25.2	25.2	25.1
30	30.6	30.4	30.4
35	35.3	35.4	35
40	40.4	40.4	40.6
45	45.6	45.6	46
50	50.4	50	50.4
55	55.9	55.4	55.5
60	60.8	60.4	60.5
65	65.7	65.4	65.6
70	71	70.4	70.8
75	75.8	75.4	75.3
80	80.8	80.5	80.3
85	85.8	85.3	84.9
90	90.8	90.3	90.2
95	95.8	95.7	95.9
100	100	100	100

Reset Grayscale



Contrast Ratio : needs level 0 and 100 readings

Comparator | Notes | DDC

Display Slot: CMS 2

Grayscale Points: 20 Point 5% step 5-100%

CAL Gray M-pnt | Back | Next | Gy+2pt | Gy+dta | Prepare | Setup | PreRead | DyRnge | Calibrate | Gy+2pt | Gy+dta | Satur | Lumi | C Chk | 3d Cb | PostCal Read | Analyze | Gy-Pst | Final Check | M-Pnt | Gy+2pt | Gy+dta

5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

Notes | Back | Next

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Grayscale Full | Grayscale Simple | Grayscale Minimal

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

MultiPoint Grayscale Calibration - Full

Use tabs to select layout level ☒ Comparator ☐ Notes ☐ DDC ☒ Logarithmic Y Axis→

CCT 6518 6500 Avg

Triplet 158, 158, 158

Y in fL	Target = tgt
Y tgt	8.58075
	8.82007
x tgt	0.31271
	0.31271
y tgt	0.32901
	0.32702

Luminance

Target Y 8.58075 8.82007 65

18.5087 1.8509 0.0185

RGB Balance

R 3.3 G 1.8 B 3.4

Delta E 1.33 1.86 Avg 3.78 Max

CCT 6518

Gamma 2.34

dE 1.33

Gamma Point 2.34 2.27 Total

Summary

Delta E	Avg	1.86
	Max @ 15	3.78
Gamma	Tot	2.27
	Tgt	2.4
CCT	Avg	6500
	Tgt	6503

White 24.27

Contrast Ratio : needs level 0 and 100 readings

☒ Comparator ☐ Notes ☐ DDC

Display Slot CMS 2

Grayscale Points 20 Point 5% step 5-100%

CAL Gray M-pnt

Back Next Gy+2pt Gy+dta Prepare Setup PreRead DyRnge Calibrate Gy+2pt Gy+dta Satur Lumi C Chk 3d Cb PostCal Read Analyze Gy-Pst Final Check M-Pnt Gy+2pt Gy+dta Notes

Back Next

CalMAN 5 CalMAN Enthusiast for Home Video

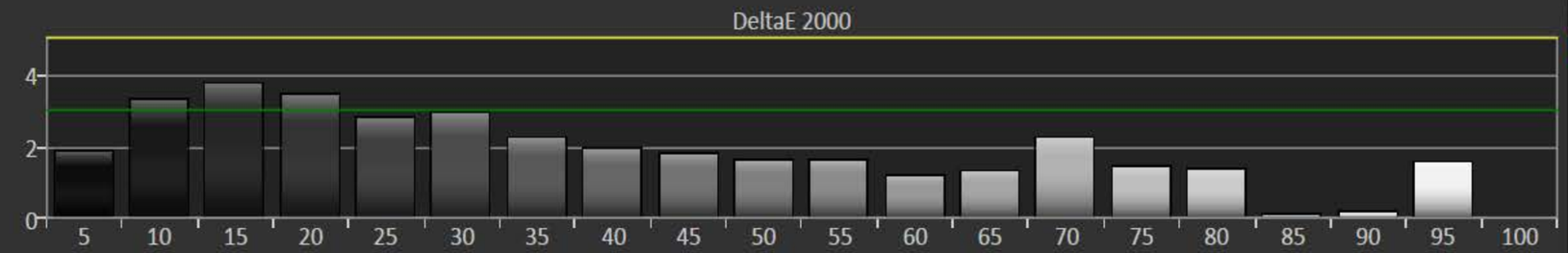
CalMAN 5

Datagrid

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

Multi-Point Calibration Data - Full

Calibration Notes



	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
RGB Triplet	27, 27, 27	38, 38, 38	49, 49, 49	60, 60, 60	71, 71, 71	82, 82, 82	93, 93, 93	104, 104, 104	115, 115, 115	126, 126, 126	136, 136, 136	147, 147, 147	158, 158, 158	169, 169, 169	180, 180, 180	191, 191, 191	202, 202, 202	213, 213,
RedIndex	27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000	213.0000
GreenIndex	27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000	213.0000
BlueIndex	27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000	213.0000
X	0.3397	0.8036	1.5692	2.5868	3.8346	5.5042	7.5298	9.8912	12.8032	16.3119	19.8698	23.3596	28.8981	34.4122	40.8327	45.8701	53.0832	61.8198
Y cd/m²	0.3575	0.8401	1.6510	2.7392	4.0089	5.8639	7.8720	10.4102	13.3851	17.1623	20.7729	24.7269	30.2198	35.7574	42.7003	48.5549	55.8506	65.0427
Z	0.3960	0.9097	1.7978	2.9994	4.3410	6.3467	8.5241	11.5325	14.4938	18.6883	22.4937	26.6134	33.2930	39.1750	47.0426	52.2594	60.8167	70.8261
Xn 0-1	0.0041	0.0097	0.0189	0.0311	0.0461	0.0662	0.0905	0.1189	0.1540	0.1961	0.2389	0.2809	0.3475	0.4138	0.4910	0.5516	0.6383	0.7434
Yn 0-1	0.0043	0.0101	0.0199	0.0329	0.0482	0.0705	0.0947	0.1252	0.1610	0.2064	0.2498	0.2973	0.3634	0.4300	0.5135	0.5839	0.6716	0.7821
Zn 0-1	0.0048	0.0109	0.0216	0.0361	0.0522	0.0763	0.1025	0.1387	0.1743	0.2247	0.2705	0.3200	0.4003	0.4711	0.5657	0.6284	0.7313	0.8517
Stimulus Percent	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995
RED Stim%:0-1	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995
GRN Stim%:0-1	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995
BLU Stim%:0-1	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995
Measured Red Stimulus	0.1028	0.1488	0.1953	0.2389	0.2853	0.3263	0.3780	0.4189	0.4715	0.5181	0.5663	0.6002	0.6593	0.7138	0.7614	0.7950	0.8471	0.9027
Measured Green Stimulus	0.1033	0.1470	0.1953	0.2418	0.2820	0.3328	0.3735	0.4209	0.4660	0.5181	0.5596	0.6046	0.6545	0.7002	0.7559	0.8008	0.8472	0.9027
Measured Blue Stimulus	0.1041	0.1470	0.1953	0.2418	0.2820	0.3302	0.3735	0.4242	0.4660	0.5181	0.5596	0.5998	0.6596	0.7057	0.7618	0.7946	0.8471	0.9027
Stimulus	5.0000	10.0000	15.0000	20.0000	25.0000	30.0000	35.0000	40.0000	45.0000	50.0000	55.0000	60.0000	65.0000	70.0000	75.0000	80.0000	85.0000	90.0000
Target X cd/m²	0.0603	0.3181	0.8418	1.6791	2.8685	4.4432	6.4323	8.8624	11.7575	15.1402	18.6563	23.0272	27.9436	33.4233	39.4835	46.1404	53.4099	61.3069
Target Y cd/m²	0.0634	0.3347	0.8857	1.7666	3.0180	4.6748	6.7675	9.3242	12.3702	15.9293	19.6286	24.2273	29.3999	35.1652	41.5412	48.5450	56.1933	64.5019
Target Z cd/m²	0.0691	0.3645	0.9645	1.9238	3.2865	5.0907	7.3696	10.1538	13.4708	17.3465	21.3749	26.3828	32.0156	38.2938	45.2371	52.8640	61.1928	70.2406
Target Xn 0-1	0.0007	0.0038	0.0101	0.0202	0.0345	0.0534	0.0773	0.1066	0.1414	0.1821	0.2243	0.2769	0.3360	0.4019	0.4748	0.5548	0.6422	0.7372
Target Yn 0-1	0.0008	0.0040	0.0107	0.0212	0.0363	0.0562	0.0814	0.1121	0.1488	0.1915	0.2360	0.2913	0.3535	0.4229	0.4995	0.5837	0.6757	0.7756
Target Zn 0-1	0.0008	0.0044	0.0116	0.0231	0.0395	0.0612	0.0886	0.1221	0.1620	0.2086	0.2570	0.3172	0.3850	0.4605	0.5440	0.6357	0.7358	0.8446
TargetGamut:Nrml Y	0.0008	0.0040	0.0107	0.0212	0.0363	0.0562	0.0814	0.1121	0.1488	0.1915	0.2360	0.2913	0.3535	0.4229	0.4995	0.5837	0.6757	0.7756
TargetRED:Lin0-1	0.0008	0.0040	0.0107	0.0212	0.0363	0.0562	0.0814	0.1121	0.1488	0.1915	0.2360	0.2913	0.3535	0.4229	0.4995	0.5837	0.6757	0.7756
TargetGRN:Lin0-1	0.0008	0.0040	0.0107	0.0212	0.0363	0.0562	0.0814	0.1121	0.1488	0.1915	0.2360	0.2913	0.3535	0.4229	0.4995	0.5837	0.6757	0.7756
TargetBLU:Lin0-1	0.0008	0.0040	0.0107	0.0212	0.0363	0.0562	0.0814	0.1121	0.1488	0.1915	0.2360	0.2913	0.3535	0.4229	0.4995	0.5837	0.6757	0.7756

CAL

Calib

Prepare

Calibrate

Calib

Analyze

CAL

Calib

Notes Mgmt

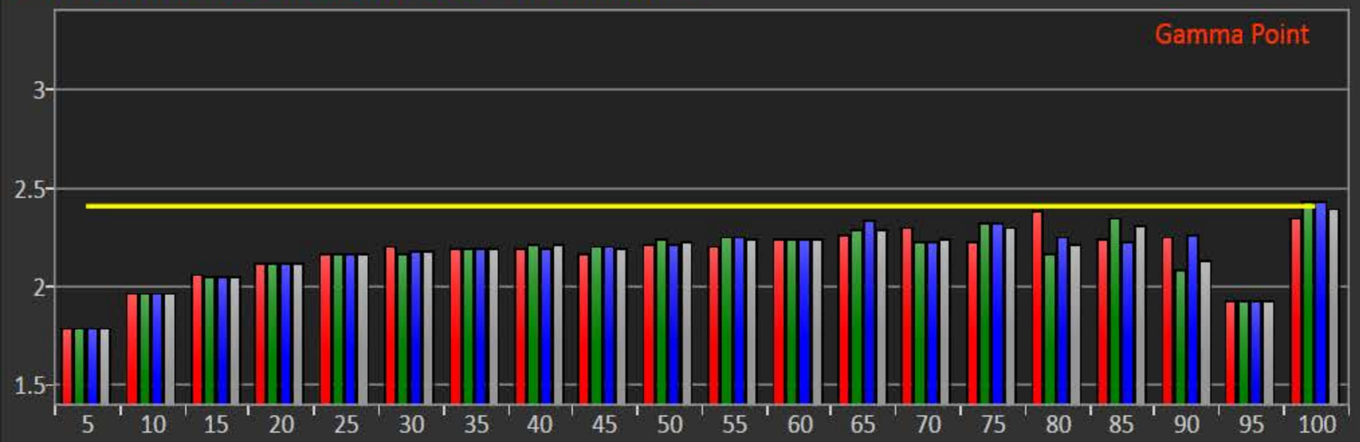
CalMAN 5 CalMAN Enthusiast for Home Video

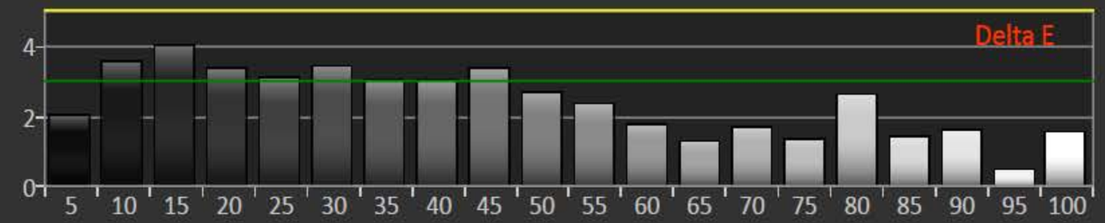
CalMAN 5

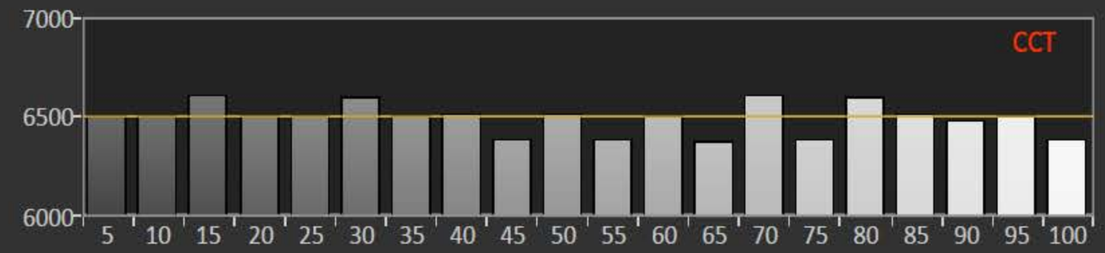
Datagrid

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

Multi-Point Calibration Data - Minimal







	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
RGB Triplet	27, 27, 27	38, 38, 38	49, 49, 49	60, 60, 60	71, 71, 71	82, 82, 82	93, 93, 93	104, 104, 104	115, 115, 115	126, 126, 126	136, 136, 136	147, 147, 147	158, 158, 158	169, 169, 169	180, 180, 180	191, 191, 191	202, 202, 202	213, 213,
RedIndex	27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000	213.0000
GreenIndex	27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000	213.0000
BlueIndex	27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000	213.0000
X	0.3537	0.8148	1.5591	2.5014	3.8102	5.5042	7.6346	10.1580	13.3258	16.4117	19.8698	23.9812	28.1568	33.7683	39.2423	45.5768	52.3397	60.2415
Y cd/m²	0.3721	0.8573	1.6510	2.6318	4.0089	5.8639	8.0326	10.6227	13.9314	17.1623	20.7729	25.2315	29.6155	35.7574	41.0258	48.5549	54.7336	63.7674
Z	0.4052	0.9335	1.8078	2.8658	4.3653	6.3467	8.7468	11.7029	15.0854	18.9076	22.4937	27.4750	31.6960	39.1542	44.4243	52.5528	60.2996	68.6325
Xn 0-1	0.0044	0.0102	0.0195	0.0313	0.0477	0.0689	0.0956	0.1271	0.1668	0.2054	0.2487	0.3001	0.3524	0.4226	0.4911	0.5704	0.6551	0.7540
Yn 0-1	0.0047	0.0107	0.0207	0.0329	0.0502	0.0734	0.1005	0.1329	0.1744	0.2148	0.2600	0.3158	0.3707	0.4475	0.5135	0.6077	0.6850	0.7981
Zn 0-1	0.0051	0.0117	0.0226	0.0359	0.0546	0.0794	0.1095	0.1465	0.1888	0.2366	0.2815	0.3439	0.3967	0.4900	0.5560	0.6577	0.7547	0.8590
Stimulus Percent	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995
RED Stim%:0-1	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995
GRN Stim%:0-1	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995
BLU Stim%:0-1	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995
Measured Red Stimulus	0.1068	0.1511	0.1967	0.2412	0.2874	0.3318	0.3840	0.4336	0.4875	0.5296	0.5758	0.6186	0.6641	0.7085	0.7646	0.8006	0.8586	0.9056
Measured Green Stimulus	0.1068	0.1511	0.1991	0.2412	0.2874	0.3383	0.3840	0.4305	0.4818	0.5257	0.5690	0.6186	0.6610	0.7172	0.7556	0.8164	0.8524	0.9122
Measured Blue Stimulus	0.1068	0.1511	0.1991	0.2412	0.2874	0.3357	0.3840	0.4339	0.4818	0.5299	0.5690	0.6186	0.6558	0.7171	0.7556	0.8100	0.8591	0.9051
Stimulus	5.0000	10.0000	15.0000	20.0000	25.0000	30.0000	35.0000	40.0000	45.0000	50.0000	55.0000	60.0000	65.0000	70.0000	75.0000	80.0000	85.0000	90.0000
Target X cd/m²	0.0579	0.3057	0.8088	1.6133	2.7560	4.2690	6.1801	8.5148	11.2964	14.5465	17.9247	22.1242	26.8478	32.1126	37.9351	44.3310	51.3154	58.9027
Target Y cd/m²	0.0609	0.3216	0.8510	1.6973	2.8997	4.4914	6.5022	8.9586	11.8851	15.3046	18.8588	23.2772	28.2469	33.7862	39.9121	46.6413	53.9896	61.9724
Target Z cd/m²	0.0663	0.3502	0.9267	1.8483	3.1577	4.8910	7.0806	9.7556	12.9425	16.6662	20.5367	25.3481	30.7600	36.7921	43.4631	50.7909	58.7931	67.4860
Target Xn 0-1	0.0007	0.0038	0.0101	0.0202	0.0345	0.0534	0.0773	0.1066	0.1414	0.1821	0.2243	0.2769	0.3360	0.4019	0.4748	0.5548	0.6422	0.7372

CAL

Calib

Prepare

Calibrate

Calib

Analyze

CAL

Calib

Notes Mgmt

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Saturation Sweeps

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

Saturation Sweeps Calibration

Delta E 2000

100% 75% 50% 25% 100

0 0.5 1 1.5 2 2.5 3

Summary

Delta E 2000
Avg 0.81
Max 1.58

Delta L
Avg 0.634
Max 1.285

Delta H
Avg 0.359
Max 1.342

Delta C
Avg 1.0606
Max 2.254

White 23.8

Triplet
180, 123, 123

25%

Y tgt 6.54258
6.43775

x tgt 0.39299
0.39525

y tgt 0.32925
0.32926

Y in fL Target = tgt

0.35 0.34 0.33 0.32 0.31

0.37 0.38 0.39 0.4 0.41

-1.6
Luminance

dE 2000
0.45

0.5 1 1.5 2 2.5

Notes

25%

Delta C Max 2.254 Avg 1.061

Delta H Max 1.342 Avg 0.359

Delta L Max 1.285 Avg 0.634

0 100 25% 50% 75% 100%

RGB Balance

-0.3 -1.7 -1.7

-0.41 dL 0.05 dH 0.74 dC

CAL
Satur

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Next
Sa dta

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Calibrate
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Sa dta
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C Chk
3d Cb
PostCal Read
Analyze
Sa-Pst
Final Check
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RGB DDC Notes Luminance

Display Slot CMS 2

Sweep Level 25% Sweeps

← For basic CMS set to 70%/100% Only

25% 50% 75% 100%

Notes

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CalMAN 5 CalMAN Enthusiast for Home Video

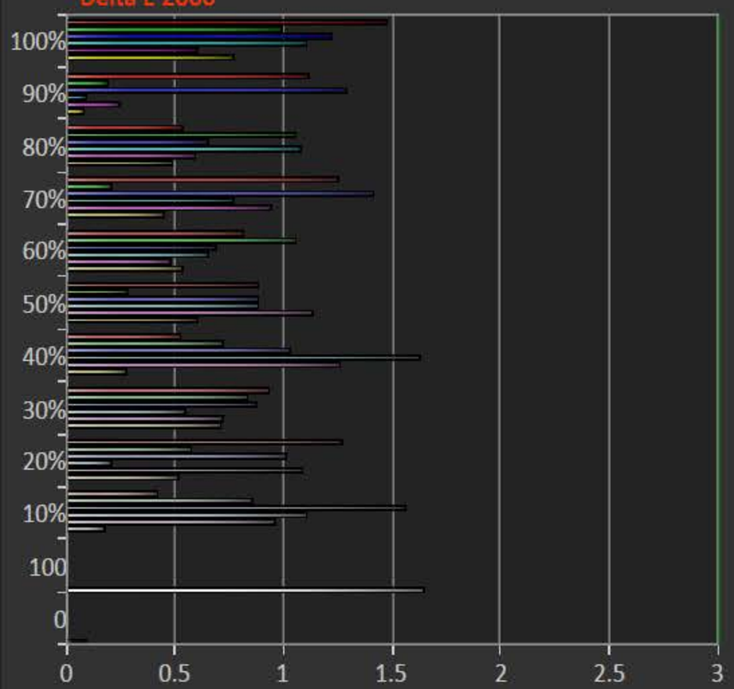
CalMAN 5

Saturation Sweeps

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

Saturation Sweeps Calibration

Delta E 2000



Summary

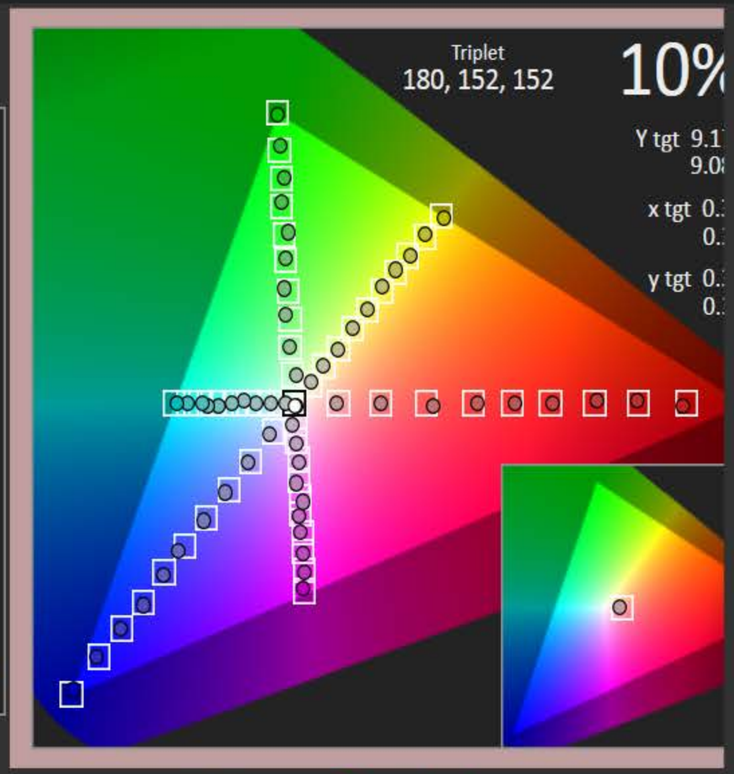
Delta E 2000
Avg 0.8
Max 1.64

Delta L
Avg 0.647
Max 1.446

Delta H
Avg 0.465
Max 2.453

Delta C
Avg 0.8754
Max 4.975

White 23.8



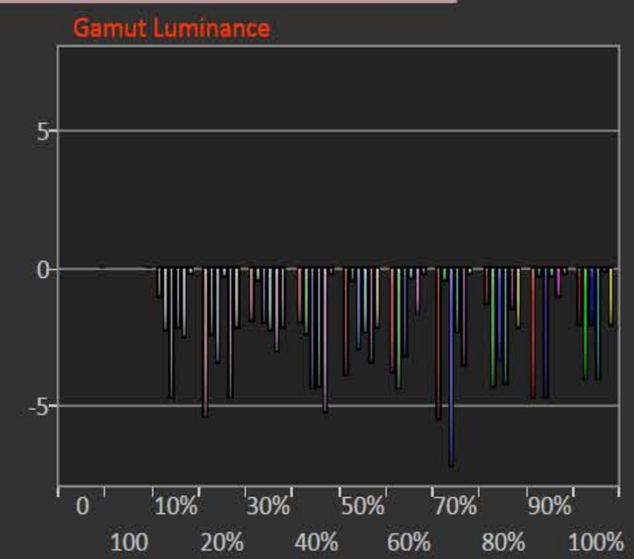
Color Notes

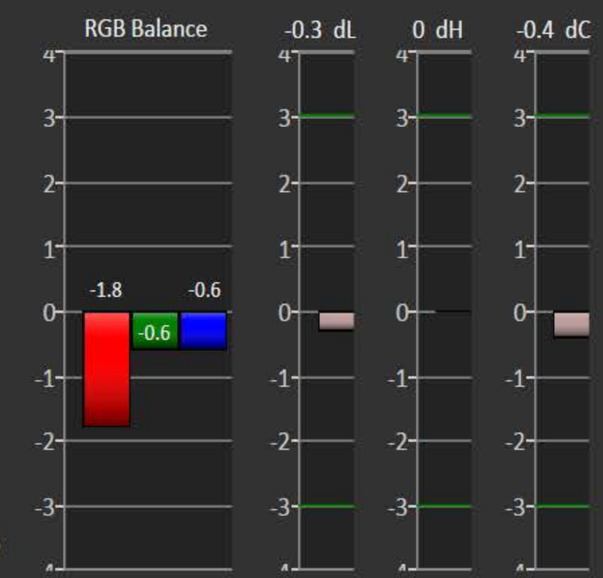
Post-Calibration Notes

Calibration Description / Goals

Big

Notes





C Chk
3d Cb
PostCal Read
Analyze
Sa-Pst
Final Check
Satur
Sa dta

Comparator | RGB | DDC | Notes | Luminance

Display Slot: CMS 2

Sweep Level: 10% Sweeps

← For basic CMS set to 70%/100% Only

10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100%

Notes | Back | Next

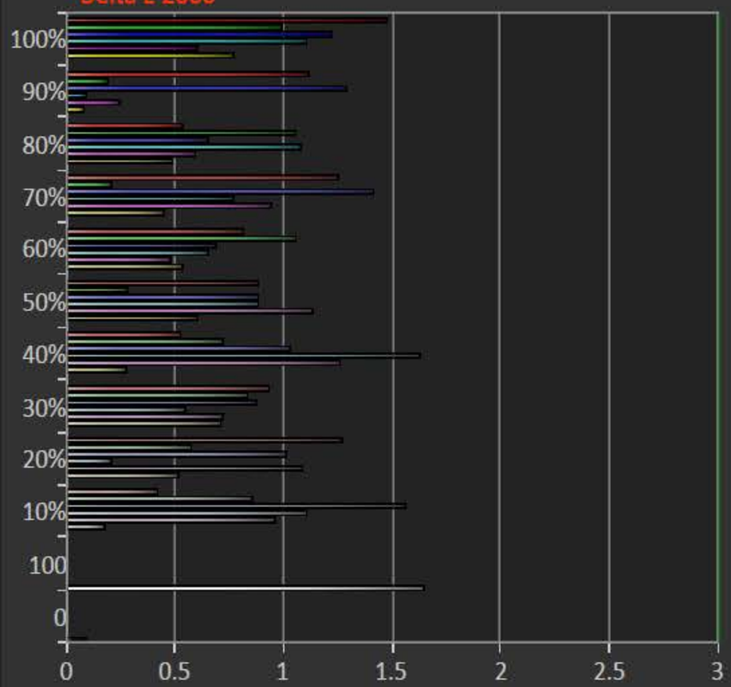
CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Saturation Sweeps

Saturation Sweeps Calibration

Delta E 2000



Summary

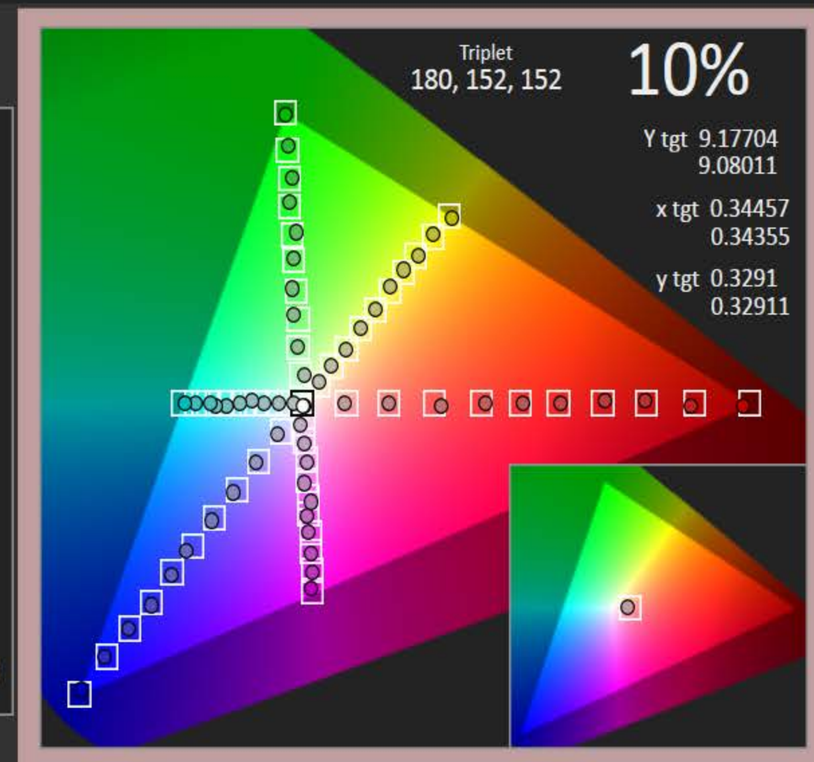
Delta E 2000
Avg 0.8
Max 1.64

Delta L
Avg 0.647
Max 1.446

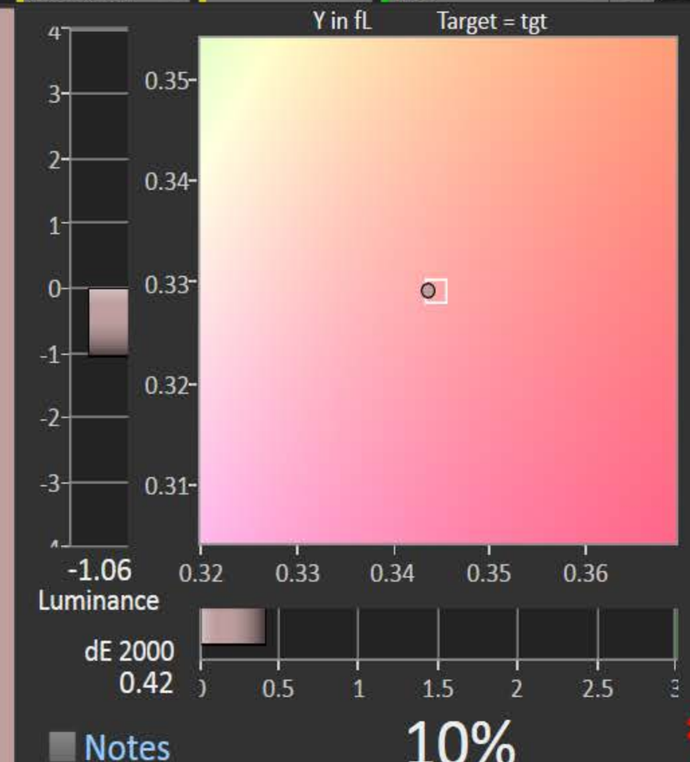
Delta H
Avg 0.465
Max 2.453

Delta C
Avg 0.8754
Max 4.975

White 23.8



Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

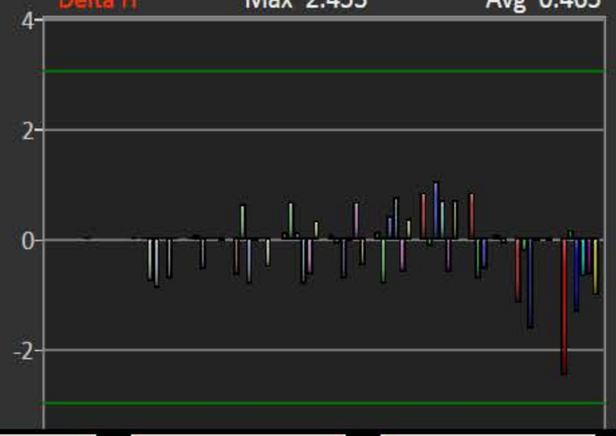


Notes

10%

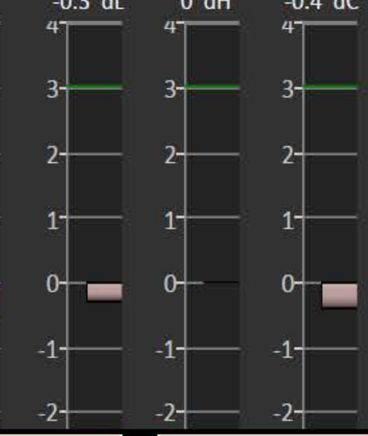
Delta C Max 4.975 Avg 0.875

Delta H Max 2.453 Avg 0.465



	Hue	Saturation	Luminance
Red	0	0	0
Green	0	0	0
Blue	0	0	0
Cyan	0	0	0
Magenta	0	0	0
Yellow	0	0	0

RGB Balance



CAL
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PreCal Read
DyRnge
Calibrate
Gray
Sa dta
Lumi
C Chk
3d Cb
PostCal Read
Analyze
Sa-Pst
Final Check
Satur
Sa dta

☒ Comparator ☐ RGB ☒ DDC ☐ Notes ☐ Luminance

Display Slot CMS 2

Sweep Level 10% Sweeps

← For basic CMS set to 70%/100% Only

Notes

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Saturation Sweeps

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

Saturation Sweeps Calibration

Delta E 2000

100% 75% 50% 25% 100 0

0 0.5 1 1.5 2 2.5 3

Summary

Delta E 2000
Avg 0.81
Max 1.58

Delta L
Avg 0.634
Max 1.285

Delta H
Avg 0.359
Max 1.342

Delta C
Avg 1.0606
Max 2.254

White 23.8

Triplet
180, 123, 123

25%

Y tgt 6.54258
6.43775

x tgt 0.39299
0.39525

y tgt 0.32925
0.32926

Y in fL Target = tgt

0.35 0.34 0.33 0.32 0.31

0.37 0.38 0.39 0.4 0.41

-1.6
Luminance

dE 2000
0.45

0.5 1 1.5 2 2.5

Notes

25%

RGB Balance

R G B R G B R G B R G B

30 20 10 0 -10 -20 -30

0 100 25% 50% 75% 100%

34

RGB Balance

-0.3 -1.7 -1.7

-0.41 dL 0.05 dH 0.74 dC

CAL
Satur

Back
Next
Sa dta

Prepare
Setup
PreCal Read
DyRnge
Calibrate
Gray
Sa dta
Lumi
C Chk
3d Cb
PostCal Read
Analyze
Sa-Pst
Final Check
Satur
Sa dta

RGB DDC Notes Luminance

Display Slot CMS 2

Sweep Level 25% Sweeps

← For basic CMS set to 70%/100% Only

25% 50% 75% 100%

Notes

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

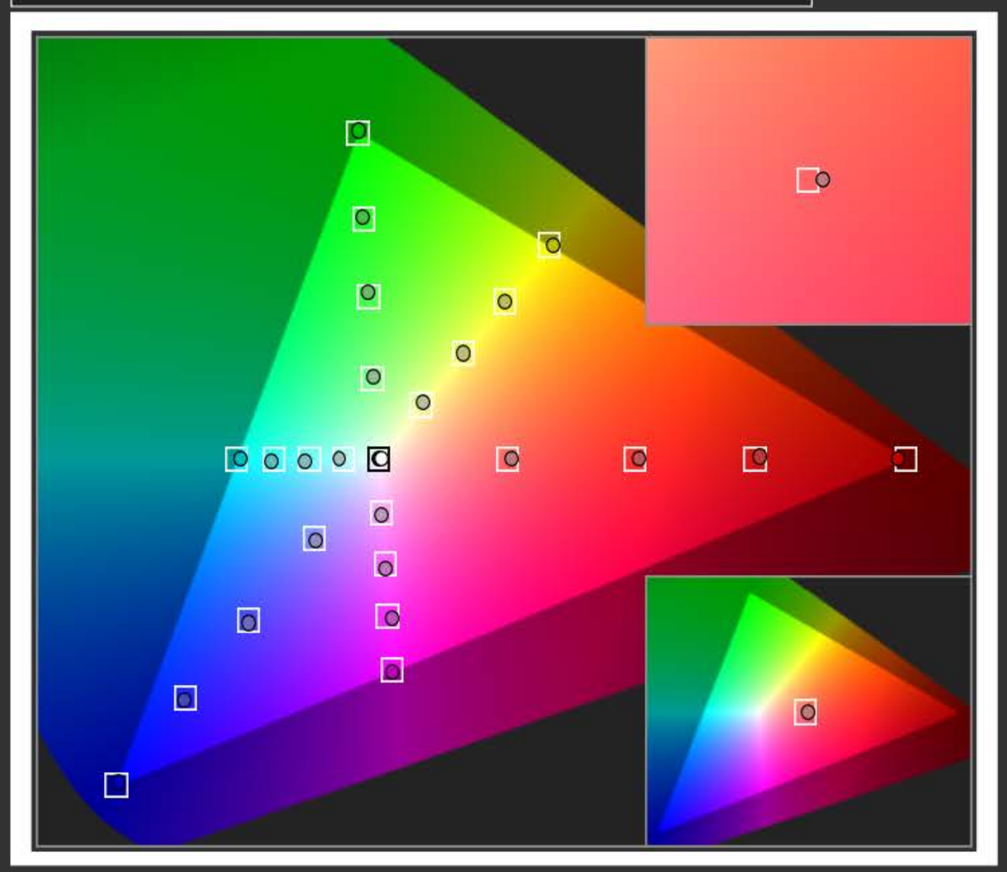
Datagrid

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

Saturation Sweep Calibration Data

Color Notes

Post-Calibration Notes



25%

	25%	50%	75%	100%
RGB Triplet	180, 123, 123	180, 90, 90	180, 64, 64	180, 16, 16
RedIndex	180.0000	180.0000	180.0000	180.0000
GreenIndex	123.0000	90.0000	64.0000	16.0000
BlueIndex	123.0000	90.0000	64.0000	16.0000
X	26.4781	21.2465	18.4714	17.2634
Y cd/m²	22.0574	14.7289	11.1591	8.9798
Z	18.4545	8.7247	4.0089	0.9692
Xn 0-1	0.3248	0.2606	0.2266	0.2117
Yn 0-1	0.2705	0.1807	0.1369	0.1101
Zn 0-1	0.2264	0.1070	0.0492	0.0119
Stimulus Percent	0.7489	0.7489	0.7489	0.7489
RED Stim%:0-1	0.7489	0.7489	0.7489	0.7489
GRN Stim%:0-1	0.4886	0.3379	0.2192	0.0000
BLU Stim%:0-1	0.4886	0.3379	0.2192	0.0000
Measured Red Stimulus	0.7486	0.7419	0.7326	0.7403
Measured Green Stimulus	0.4825	0.3274	0.2118	0.0137
Measured Blue Stimulus	0.4824	0.3274	0.2042	0.0136
Stimulus	75.0000	75.0000	75.0000	75.0000
Target X cd/m²	26.7564	21.9146	19.5254	17.7719
Target Y cd/m²	22.4166	15.2976	11.7693	9.1636
Target Z cd/m²	18.9104	9.2157	4.4003	0.8331
Target Xn 0-1	0.3282	0.2688	0.2395	0.2180
Target Yn 0-1	0.2749	0.1876	0.1444	0.1124
Target Zn 0-1	0.2319	0.1130	0.0540	0.0102
TargetGamut:Nrml Y	0.5247	0.5252	0.5256	0.5262
TargetRED:Lin0-1	0.5252	0.5263	0.5273	0.5285
TargetGRN:Lin0-1	0.2074	0.0962	0.0409	0.0000
TargetBLU:Lin0-1	0.2074	0.0962	0.0409	0.0000
TargetGamut:Nrml MaxY	0.5241	0.3573	0.2746	0.2136
Target x:CIE31	0.3930	0.4720	0.5470	0.6400
Target y:CIE31	0.3293	0.3295	0.3297	0.3300
Target z:CIE31	0.2778	0.1985	0.1233	0.0300

25% | 50% | 75% | 100%

CAL

Calib

Prepare

Calibrate

Calib

Analyze

CAL

Calib

Notes Mgmt

CalMAN 5 CalMAN Enthusiast for Home Video

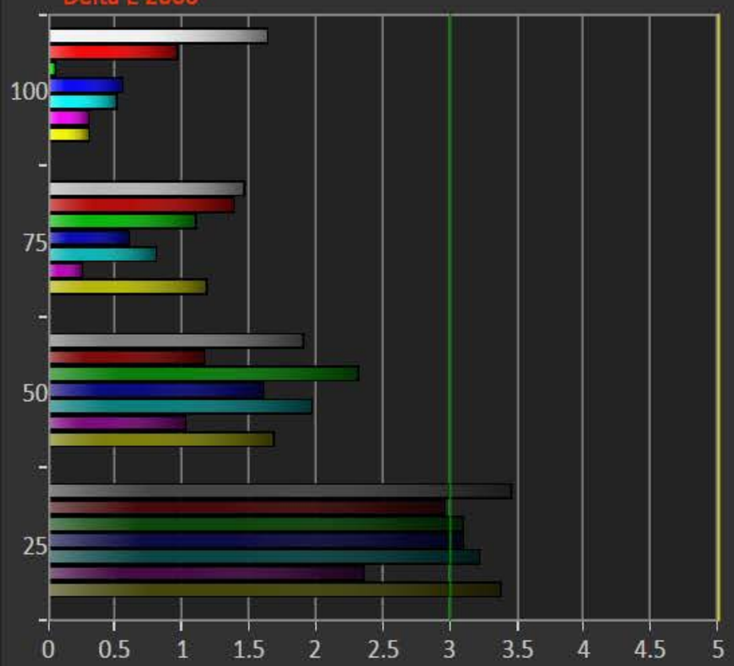
CalMAN 5

Gamut Luminance

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

Gamut Luminance Calibration

Delta E 2000



Summary

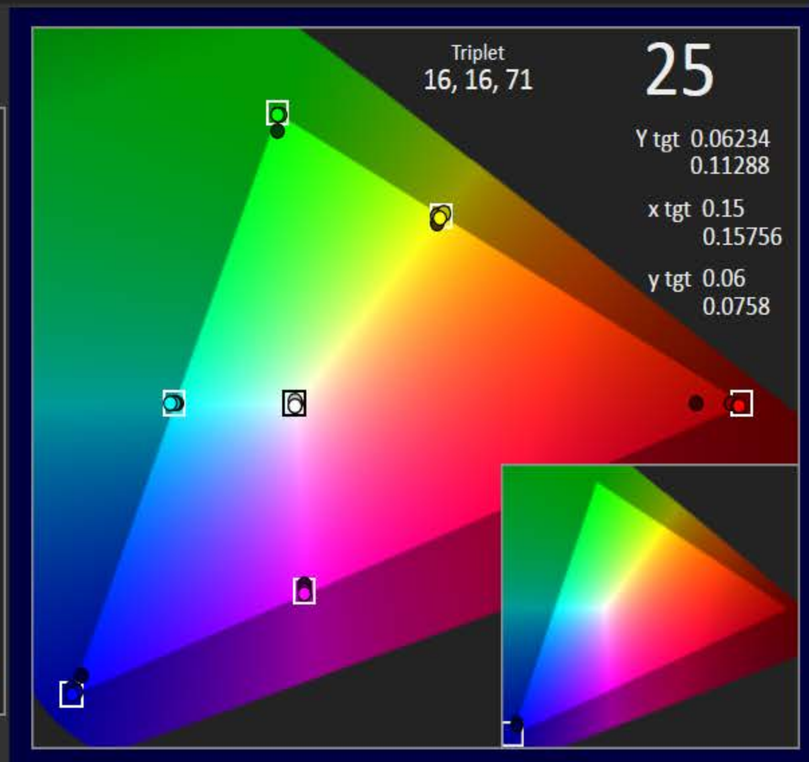
Delta E 2000
Avg 1.59
Max 3.45

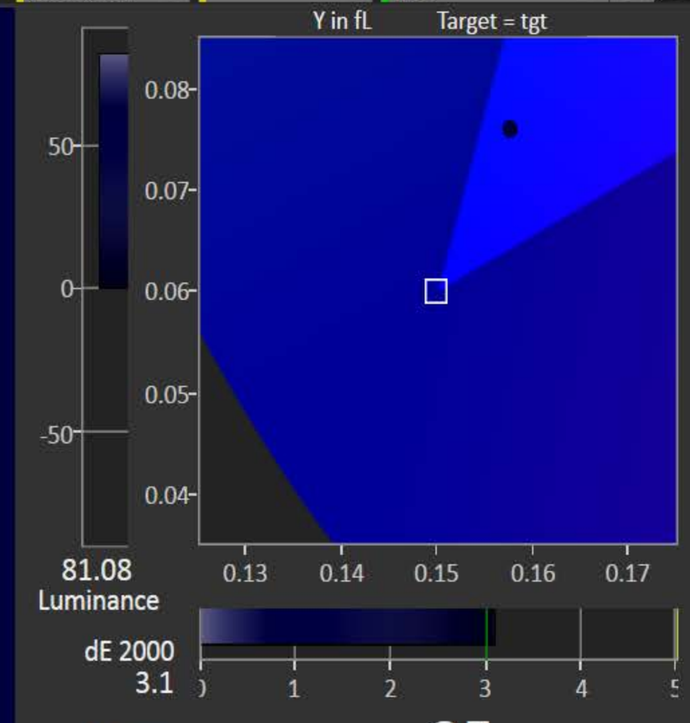
Delta L
Avg 1.63
Max 4.662

Delta H
Avg 0.608
Max 2.498

Delta C
Avg 1.7
Max 9.205

White 23.8



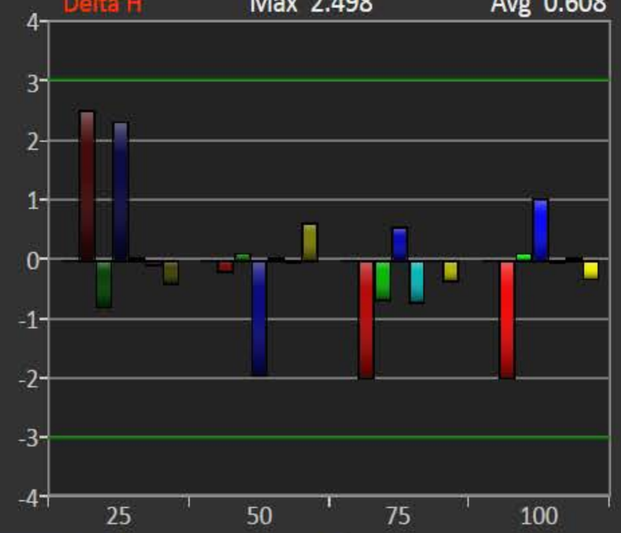


Notes

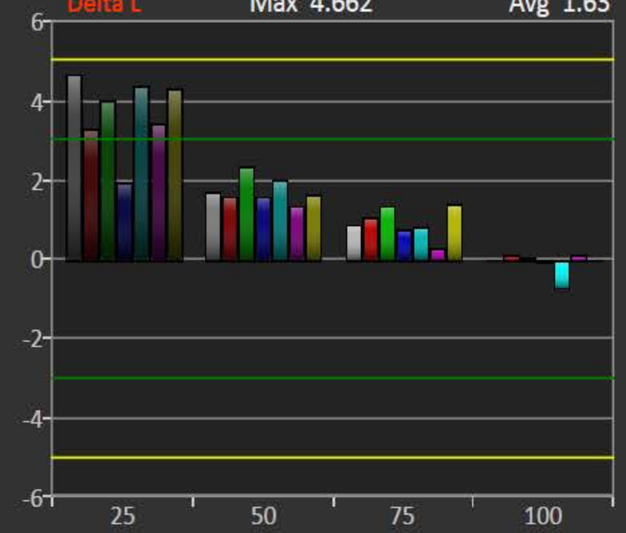
25

Delta C Max 9.205 Avg 1.7

Delta H Max 2.498 Avg 0.608

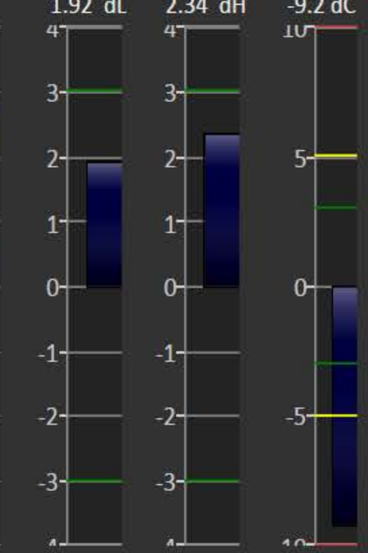


Delta L Max 4.662 Avg 1.63



RGB Balance

1.92 dL 2.34 dH -9.2 dC



RGB DDC Notes Luminance

Display Slot CMS 2

Ramp Levels 4 Point 25% step 25-100%

CAL Lumi

Back Next Lu dta Prepare Setup PreCal Read DyRnge Calibrate Gray Satur Lu dta C Chk 3d Cb PostCal Read Analyze Lu-Pst Final Check Lumi Lu dta Notes

25 50 75 100

Back Next

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

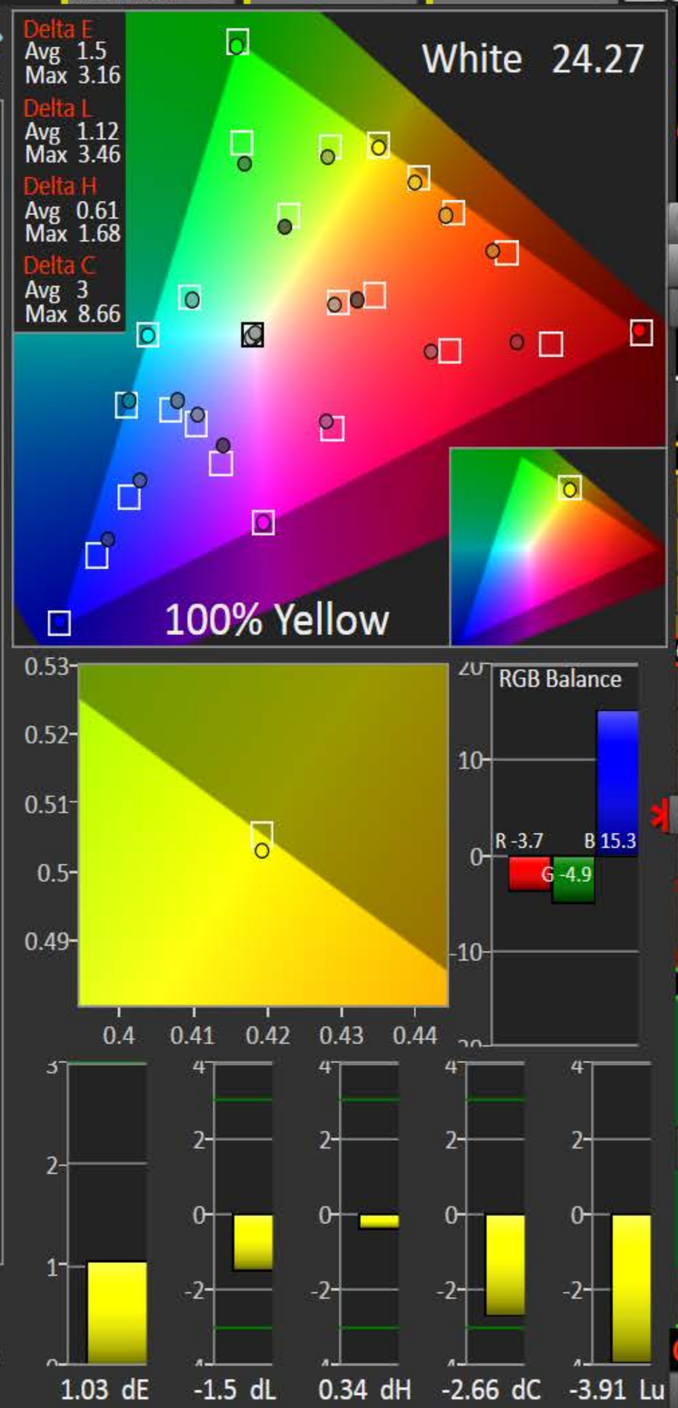
Color Checker

Simulated Meter LCD Direct View | Source | Direct Display Control

Color Checker Calibration

100% Yellow | SG Fleshtones | Select Base Colors | Summary →

	Delta E	Delta L	Delta H	Delta C
Max	3.16	3.46	1.68	6
Avg	1.5	1.12	0.61	2.46



Slim Datagrid | Comparator | Notes | DDC

Display Slot

Triplet	Y tgt	x tgt	y tgt
235, 235, 16	22.51958	0.41931	0.50525
	21.63859	0.4191	0.5029

White | Gray 80 | Gray 65 | Gray 50 | Gray 35 | Dark Skin | Light Skin | Blue Sky | Foliage | Blue Flower | Bluish Green | Orange | Purplish Blue | Moderate Red | Purple | Yellow Green | Orange Yellow | Blue | Green | Red | Yellow | Magenta | Cyan | 100% Red | 100% Green | 100% Blue | 100% Cyan | 100% Magenta | 100% Yellow

Back | Next | Notes

CAL CChkr | Back | Next | Cc+dta | Prepare | Setup | PreCal Read | DyRnge | Calibrate | Gray | Satur | Lumi | Cc+dta | 3d Cb | PostCal Read | Analyze | Cc-Pst | Final Check | CChkr | Cc+dta

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Color Checker

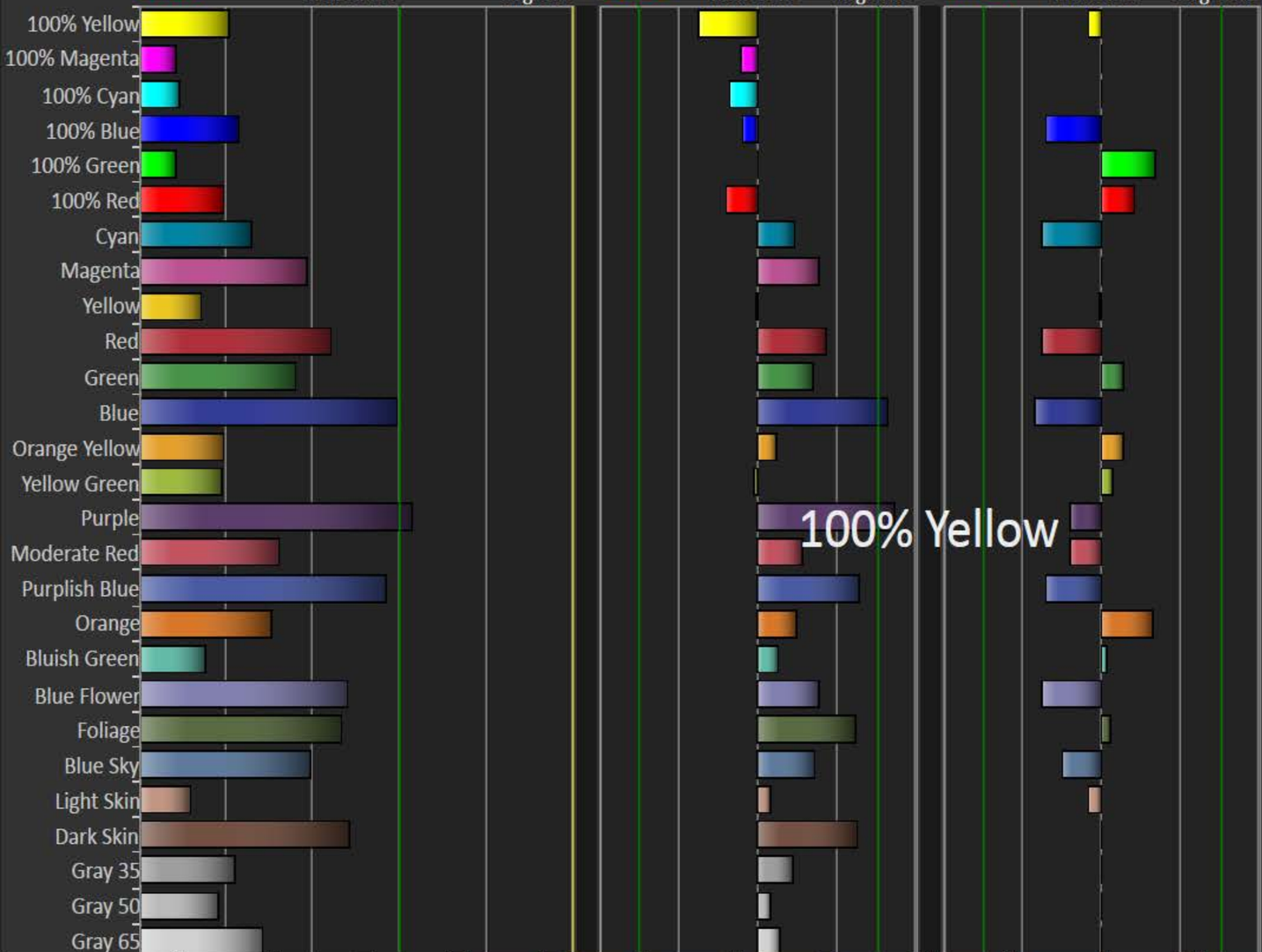
Simulated Meter LCD Direct View | Source | Sharp Elite ISF Day

Color Checker Calibration

100% Yellow | SG Fleshtones | Select Base Colors

Delta E Max 3.16 Avg 1.5 | Delta L Max 3.46 Avg 1.12 | Delta H Max 1.68 Avg 0.61

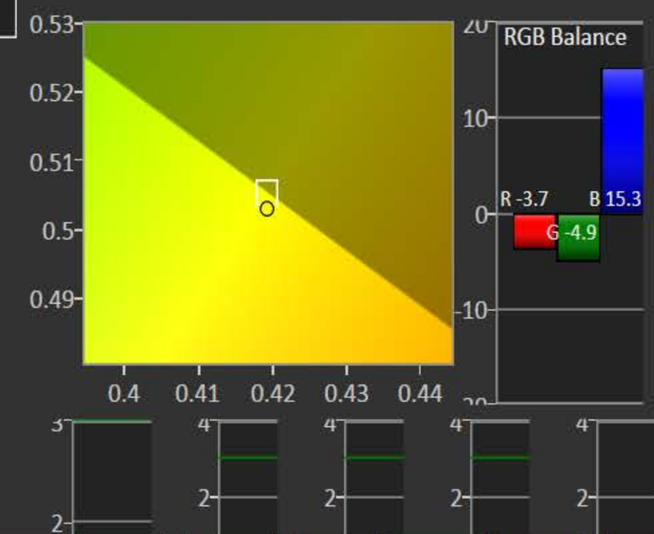
100% Yellow
100% Magenta
100% Cyan
100% Blue
100% Green
100% Red
Cyan
Magenta
Yellow
Red
Green
Blue
Orange Yellow
Yellow Green
Purple
Moderate Red
Purplish Blue
Orange
Bluish Green
Blue Flower
Foliage
Blue Sky
Light Skin
Dark Skin
Gray 35
Gray 50
Gray 65



	Red	Green	Blue
0	46	37	19
10	100	70	70
20	73	60	48
30	56	51	34
40	52	46	29
50	51	44	26
60	49	41	24
70	49	38	21
80	47	37	20
90	46	36	19
100	46	37	19

	Hue	Saturation	Luminance
Red	25	34	31
Green	32	46	29
Blue	41	37	38
Cyan	23	42	20
Magenta	34	39	24
Yellow	22	34	38

Reset CMS



CAL
CChkr
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Cc dta
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PreCal Read
DyRnge
Calibrate
Gray
Satur
Lumi
Cc dta
3d Cb
PostCal Read
Analyze
Cc-Pst

White | Gray 80 | Gray 65 | Gray 50 | Gray 35 | Dark Skin | Light Skin | Blue Sky | Foliage | Blue Flower | Bluish Green | Orange | Purplish Blue | Moderate Red | Purple | Yellow Green | Orange Yellow | Blue | Green | Red | Yellow | Magenta | Cyan | 100% Red | 100 Gre

Slim Datagrid | Comparator | Notes | DDC

Display Slot: ISF Day

Triplet 235, 235, 16 | Y tgt 22.51958 21.63859 | x tgt 0.41931 0.4191 | y tgt 0.50525 0.5029

1.03 dE | -1.5 dL | 0.34 dH | -2.66 dC | -3.91 Lu

CChkr | Cc dta | Notes | Back | Next

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

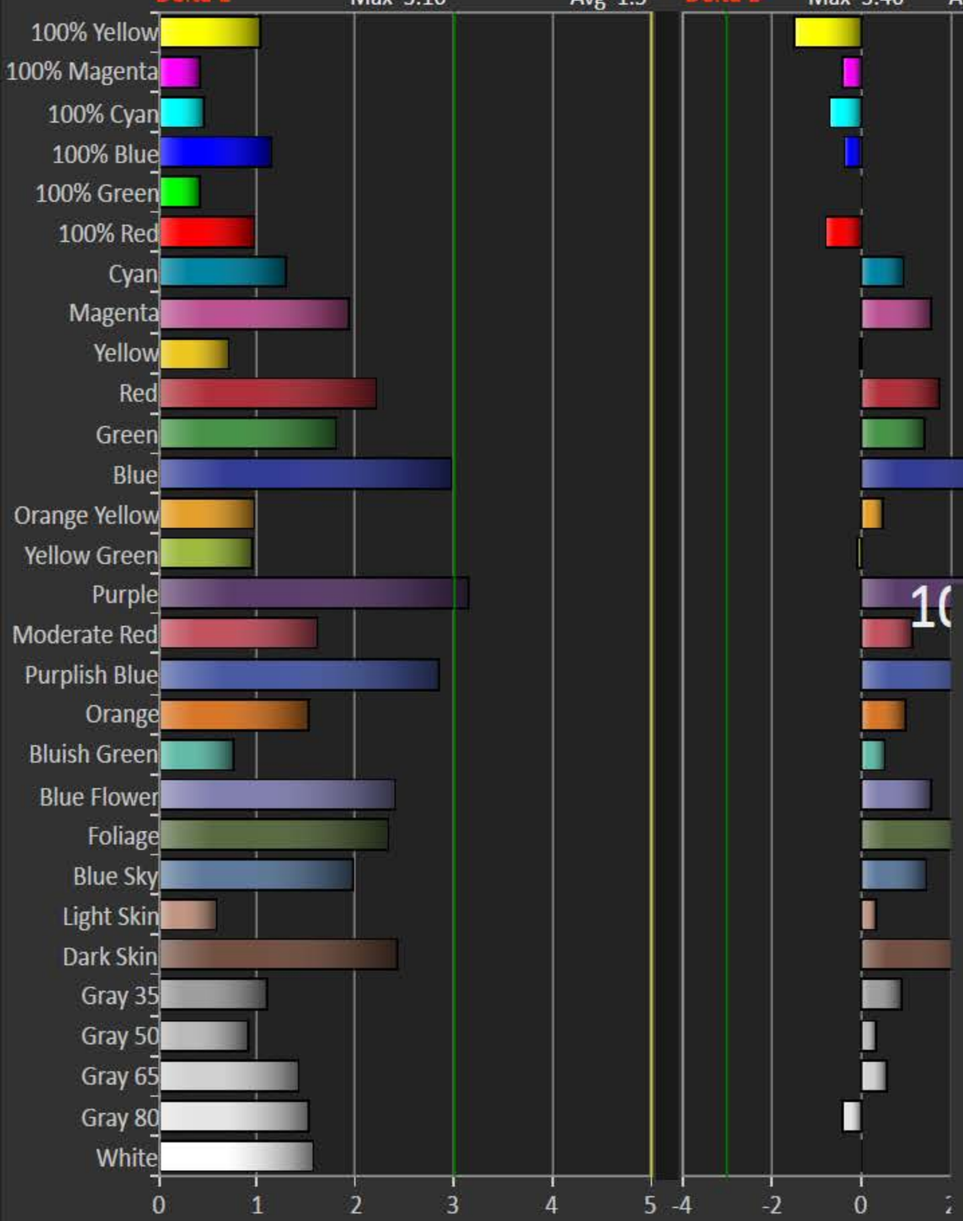
Color Checker

Simulated Meter LCD Direct View | Source | Sharp Elite ISF Day

Color Checker Calibration

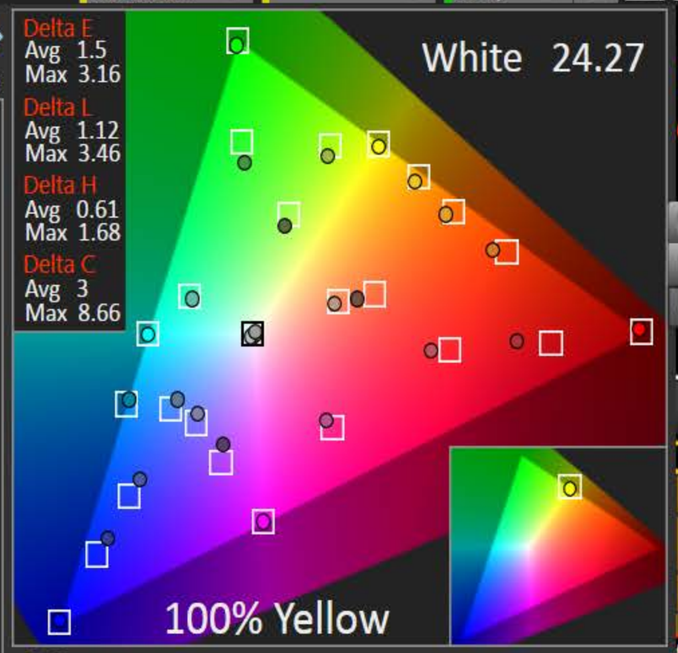
100% Yellow | SG Fleshtones | Select Base Colors | Summary →

	Delta E	Delta L	Delta H	Delta C
Max	3.16	3.46	1.68	6
Avg	1.5	1.12	0.61	2.46



Delta E Avg 1.5 Max 3.16
Delta L Avg 1.12 Max 3.46
Delta H Avg 0.61 Max 1.68
Delta C Avg 3 Max 8.66

White 24.27

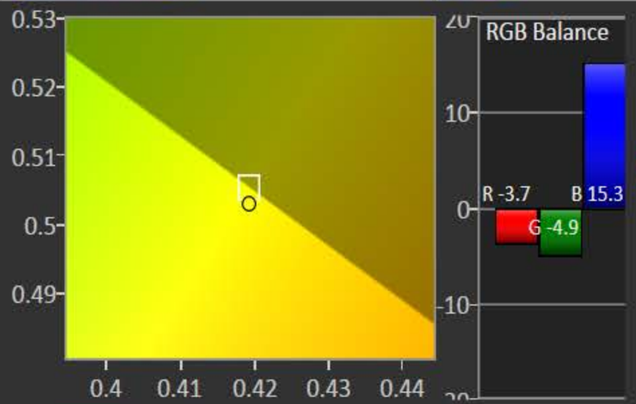


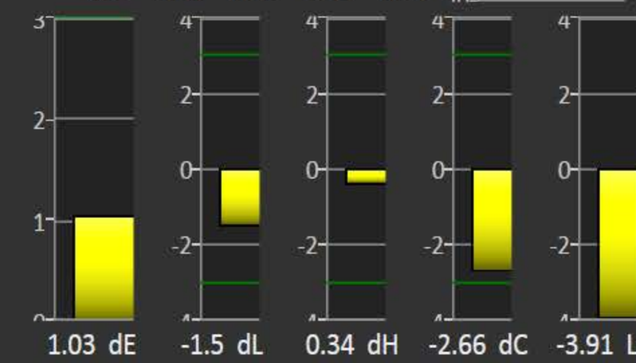
Color Notes

Post-Calibration Notes

Calibration Description / Goals

Big





Slim Datagrid | Comparator | Notes | DDC

Display Sl
ISF Day

CAL
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PreCal Read
DyRnge
Calibrate
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3d Cb
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Final Check
CChkr
Cc slim

White | Gray 80 | Gray 65 | Gray 50 | Gray 35 | Dark Skin | Light Skin | Blue Sky | Foliage | Blue Flower | Bluish Green | Orange | Purplish Blue | Moderate Red | Purple | Yellow Green | Orange Yellow | Blue | Green | Red | Yellow | Magenta | Cyan | 100% Red | 100% Green | 100% Blue | 100% Cyan | 100% Magenta | 100% Yellow

Notes | Back | Next

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Datagrid

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

Color Checker Calibration Data

Color Notes

Post-Cal Notes

	White	Gray 80	Gray 65	Gray 50	Gray 35	Dark Skin	Light Skin	Blue Sky	Foliage	Blue Flower	Bluish Green	Orange
RGB Triplet	235, 235, 235	213, 213, 213	196, 196, 196	176, 176, 176	152, 152, 152	115, 86, 73	182, 145, 128	97, 121, 150	93, 108, 73	128, 126, 167	101, 178, 161	202, 119, 51
RedIndex	235.0000	213.0000	196.0000	176.0000	152.0000	115.0000	182.0000	97.0000	93.0000	128.0000	101.0000	202.0000
GreenIndex	235.0000	213.0000	196.0000	176.0000	152.0000	86.0000	145.0000	121.0000	108.0000	126.0000	178.0000	119.0000
BlueIndex	235.0000	213.0000	196.0000	176.0000	152.0000	73.0000	128.0000	150.0000	73.0000	167.0000	161.0000	51.0000
X	75.4818	61.3683	49.8466	37.3743	26.4242	8.7378	29.8560	14.0157	8.2783	20.4706	24.0255	28.9305
Y cd/m²	79.8997	63.7674	51.7952	39.5759	27.9807	7.9449	27.8773	14.9057	10.3733	18.9469	33.5003	22.6453
Z	85.9957	69.8620	56.7456	43.3355	30.6387	5.1464	20.9784	27.2432	5.7141	36.3740	34.9527	4.5756
Xn 0-1	0.9447	0.7681	0.6239	0.4678	0.3307	0.1094	0.3737	0.1754	0.1036	0.2562	0.3007	0.3621
Yn 0-1	1.0000	0.7981	0.6483	0.4953	0.3502	0.0994	0.3489	0.1866	0.1298	0.2371	0.4193	0.2834
Zn 0-1	1.0763	0.8744	0.7102	0.5424	0.3835	0.0644	0.2626	0.3410	0.0715	0.4552	0.4375	0.0573
Stimulus Percent	1.0000	0.8995	0.8219	0.7306	0.6210	0.4521	0.7580	0.6119	0.4201	0.6895	0.7397	0.8493
RED Stim%:0-1	1.0000	0.8995	0.8219	0.7306	0.6210	0.4521	0.7580	0.3699	0.3516	0.5114	0.3881	0.8493
GRN Stim%:0-1	1.0000	0.8995	0.8219	0.7306	0.6210	0.3196	0.5890	0.4795	0.4201	0.5023	0.7397	0.4703
BLU Stim%:0-1	1.0000	0.8995	0.8219	0.7306	0.6210	0.2603	0.5114	0.6119	0.2603	0.6895	0.6621	0.1598
Measured Red Stimulus	0.9948	0.9236	0.8469	0.7391	0.6397	0.4772	0.7758	0.4012	0.3840	0.5506	0.4014	0.8666
Measured Green Stimulus	1.0021	0.9060	0.8308	0.7481	0.6475	0.3549	0.6083	0.5051	0.4487	0.5275	0.7574	0.4930
Measured Blue Stimulus	0.9943	0.9132	0.8374	0.7481	0.6475	0.2961	0.5393	0.6317	0.2984	0.7151	0.6781	0.2072
Stimulus	100.0000	90.0000	82.0000	73.0000	62.0000	45.0000	76.0000	61.0000	42.0000	69.0000	74.0000	85.0000
Target X cd/m²	75.9420	58.9027	47.4319	35.7523	24.2053	7.3215	27.8523	12.3580	6.8158	17.9712	22.6171	27.1172
Target Y cd/m²	79.8997	61.9724	49.9038	37.6155	25.4667	6.4548	25.9351	13.1245	8.7388	16.7067	31.6120	20.8994
Target Z cd/m²	87.0083	67.4860	54.3437	40.9622	27.7325	3.8490	18.6573	25.1326	4.3164	33.2468	33.0071	3.5331
Target Xn 0-1	0.9505	0.7372	0.5936	0.4475	0.3029	0.0916	0.3486	0.1547	0.0853	0.2249	0.2831	0.3394
Target Yn 0-1	1.0000	0.7756	0.6246	0.4708	0.3187	0.0808	0.3246	0.1643	0.1094	0.2091	0.3956	0.2616
Target Zn 0-1	1.0890	0.8446	0.6801	0.5127	0.3471	0.0482	0.2335	0.3146	0.0540	0.4161	0.4131	0.0442
TargetGamut:Nrml Y	1.0000	0.7756	0.6246	0.4708	0.3187	0.1488	0.5143	0.3076	0.1247	0.4097	0.4850	0.6757
TargetRED:Lin0-1	1.0000	0.7756	0.6246	0.4708	0.3187	0.1488	0.5143	0.0919	0.0814	0.2000	0.1032	0.6757
TargetGRN:Lin0-1	1.0000	0.7756	0.6246	0.4708	0.3187	0.0647	0.2808	0.1713	0.1247	0.1915	0.4850	0.1636
TargetBLU:Lin0-1	1.0000	0.7756	0.6246	0.4708	0.3187	0.0395	0.2000	0.3076	0.0395	0.4097	0.3717	0.0123
TargetGamut:Nrml MaxY	1.0000	1.0000	1.0000	1.0000	1.0000	0.5431	0.6312	0.5340	0.8768	0.5103	0.8157	0.3871
Target x:CIE31	0.3127	0.3127	0.3127	0.3127	0.3127	0.4154	0.3845	0.2442	0.3430	0.2646	0.2593	0.5260
Target y:CIE31	0.3290	0.3290	0.3290	0.3290	0.3290	0.3662	0.3580	0.2593	0.4398	0.2460	0.3624	0.4054

CAL

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Datagrid 1 Datagrid 2

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

Color Checker Calibration Data Slim 1

Color Notes

Post-Cal Notes

	White	Gray 80	Gray 65	Gray 50	Gray 35	Dark Skin	Light Skin	Blue Sky	Foliage	Blue Flower	Bluish Green	Orange	Purplish Blue	Moderate Red	Purple	Yellow Green	Orange Yellow	Blue	Green	Red	Yellow	Magenta
X	75.4818	61.3683	49.8466	37.3743	26.4242	8.7378	29.8560	14.0157	8.2783	20.4706	24.0255	28.9305	10.2661	21.5059	7.0870	26.0974	36.5020	6.8281	11.4383	15.5930	46.1183	23.5092
Y cd/m²	79.8997	63.7674	51.7952	39.5759	27.9807	7.9449	27.8773	14.9057	10.3733	18.9469	33.5003	22.6453	9.1569	14.5361	5.4753	34.4322	33.9863	4.9537	18.2693	9.2035	48.6809	15.3615
Z	85.9957	69.8620	56.7456	43.3355	30.6387	5.1464	20.9784	27.2432	5.7141	36.3740	34.9527	4.5756	27.9696	10.3797	11.7433	8.9594	6.6342	23.6071	7.7722	4.2040	7.7167	23.5455
Target x:CIE31	0.3127	0.3127	0.3127	0.3127	0.3127	0.4154	0.3845	0.2442	0.3430	0.2646	0.2593	0.5260	0.2083	0.4790	0.2855	0.3781	0.4831	0.1823	0.3044	0.5631	0.4516	0.3803
x: CIE31	0.3127	0.3147	0.3147	0.3107	0.3107	0.4003	0.3793	0.2495	0.3398	0.2701	0.2598	0.5152	0.2166	0.4633	0.2916	0.3756	0.4733	0.1929	0.3052	0.5377	0.4499	0.3767
Target y:CIE31	0.3290	0.3290	0.3290	0.3290	0.3290	0.3662	0.3580	0.2593	0.4398	0.2460	0.3624	0.4054	0.1782	0.3124	0.2084	0.5025	0.4408	0.1241	0.5061	0.3198	0.4749	0.2409
y: CIE31	0.3310	0.3270	0.3270	0.3290	0.3290	0.3640	0.3542	0.2654	0.4257	0.2500	0.3622	0.4033	0.1932	0.3131	0.2253	0.4955	0.4407	0.1400	0.4874	0.3174	0.4749	0.2461
Target Y	23.3198	18.0875	14.5651	10.9786	7.4328	1.8839	7.5695	3.8306	2.5506	4.8761	9.2264	6.0998	2.2775	3.8696	1.1929	9.4932	9.3784	1.1317	4.8192	2.3973	13.4046	3.9281
Y	23.3198	18.6114	15.1171	11.5508	8.1665	2.3188	8.1364	4.3504	3.0276	5.5299	9.7775	6.6093	2.6726	4.2426	1.5980	10.0495	9.9194	1.4458	5.3321	2.6862	14.2082	4.4834
Sat: L*u*v*	1.6980	2.7192	2.5053	1.4006	1.2155	27.0664	36.2580	34.7223	27.6153	40.7919	42.8531	96.4184	59.9115	78.1560	32.0361	71.9084	86.7510	68.3829	57.9339	94.5365	92.2865	67.0241
Hue: L*u*v*	125.0423	340.2387	340.2387	191.8451	191.8451	33.5394	32.3223	245.2112	107.4542	270.0467	168.6033	31.6937	259.6751	7.1188	292.4934	100.8367	50.1378	264.0938	127.7510	9.5671	67.5628	335.249
L*	100.0000	91.5992	84.3936	75.7811	65.7641	37.7409	65.6632	50.2817	42.7375	55.7997	70.8212	60.1966	40.3455	49.7293	31.4692	71.6189	71.2391	29.9114	54.9333	40.4409	82.3398	50.9505
Gamma Point: Flat	2.4000	2.1303	2.2103	2.2382	2.2024	2.9073	3.8001	3.4180	2.3539	3.8708	2.8832	7.7197	4.8416	6.1502	3.0907	2.6817	8.0743	5.2538	2.7080	5.8129	6.9834	5.2530

CAL

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Calibrate

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Data2

Analyze

CAL

Calib

Datagrid 2

Notes Mgmt

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Datagrid 1 | Datagrid 2

Simulated Meter LCD Direct View | Source | Lumagen Radiance 3D LUT CMS 2

Color Checker Calibration Data Slim 2

Color Notes

Post-Cal Notes

	White	Gray 80	Gray 65	Gray 50	Gray 35	Dark Skin	Light Skin	Blue Sky	Foliage	Blue Flower	Bluish Green	Orange	Purplish Blue	Moderate Red	Purple	Yellow Green	Orange Yellow	Blue	Green	Red
Sat: L*a*b*	1.2772	1.9653	1.8337	0.8963	0.7985	18.7175	21.6902	21.5548	25.0779	29.0799	33.6006	65.9062	42.1614	47.4197	30.3744	63.5565	67.4410	56.6863	51.5706	57.1
Hue: L*a*b*	142.4188	349.0167	349.0167	198.9696	198.9696	51.9116	48.7936	267.2790	124.8484	297.6752	176.3826	58.9157	289.0252	18.2772	316.9185	115.5850	76.5954	297.4181	140.3677	25.3
ΔE 2000	1.6433	2.8103	2.6945	1.6949	2.3782	3.2344	1.8631	2.8081	3.0379	3.0168	1.2960	1.9552	3.0811	2.2166	3.5665	1.3479	1.7709	2.9559	2.4766	2.62
dE2000 LuminanceCompensated	1.6433	2.7383	2.5655	1.2672	1.1324	1.9592	1.1215	1.0695	1.5652	1.2245	0.1136	1.2066	2.4278	1.4463	2.4593	0.7650	1.4517	2.3731	1.5137	2.26
ΔE 1976:L*u*v*	1.6980	2.9039	2.7941	2.0825	2.8032	4.1095	2.5871	3.1204	3.4163	3.5220	1.7997	2.7951	4.6689	5.5011	4.6089	1.7483	4.4844	3.6308	3.3546	5.55
ΔE 1976:L*a*b*	1.2772	2.2139	2.2121	1.7829	2.6492	4.0482	2.4077	2.9861	3.7397	3.1879	1.7065	3.5088	5.0981	3.5743	5.1874	2.3533	3.5314	5.0254	4.0393	4.90
ΔE 1994 L*:±	0.0000	1.0192	1.2372	1.5412	2.5260	3.5949	1.9423	2.7529	3.2629	2.9492	1.6629	2.0109	2.9260	1.9857	4.4077	1.6476	1.6158	3.5992	2.3516	2.10
ΔE 1994 Sat:±	1.2772	1.9653	1.8337	0.8963	0.7985	-1.7626	-1.0818	-1.1363	-1.8220	-0.1503	0.3797	-2.8132	-3.9221	-2.8678	-2.7294	-1.6229	-2.6170	-3.3853	-3.2329	-3.38
ΔE 1994 Hue:±	0.0000	0.0000	0.0000	0.0000	0.0000	0.5987	-0.9241	-0.2173	0.1394	1.2007	-0.0530	-0.5952	-1.4305	-0.7800	0.1770	0.4352	1.7353	-0.9166	0.5779	-2.86
Signed dE94 L LuminanceCompensated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00
Signed dE94 C LuminanceCompensated	1.2772	1.9653	1.8337	0.8963	0.7985	-3.2308	-1.6366	-2.1195	-3.4041	-1.4024	-0.2690	-4.6759	-6.4463	-4.4344	-6.1178	-2.8721	-3.9391	-8.4952	-5.1121	-5.72
Signed dE94 H LuminanceCompensated	0.0000	0.0000	0.0000	0.0000	0.0000	0.6197	-0.9353	-0.2219	0.1434	1.2262	-0.0535	-0.6032	-1.4691	-0.7921	0.1859	0.4393	1.7516	-0.9547	0.5878	-2.92

CAL

Calib

Prepare

Calibrate

Calib

Data1

Analyze

CAL

Calib

Datagrid 1

Notes Mgmt

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

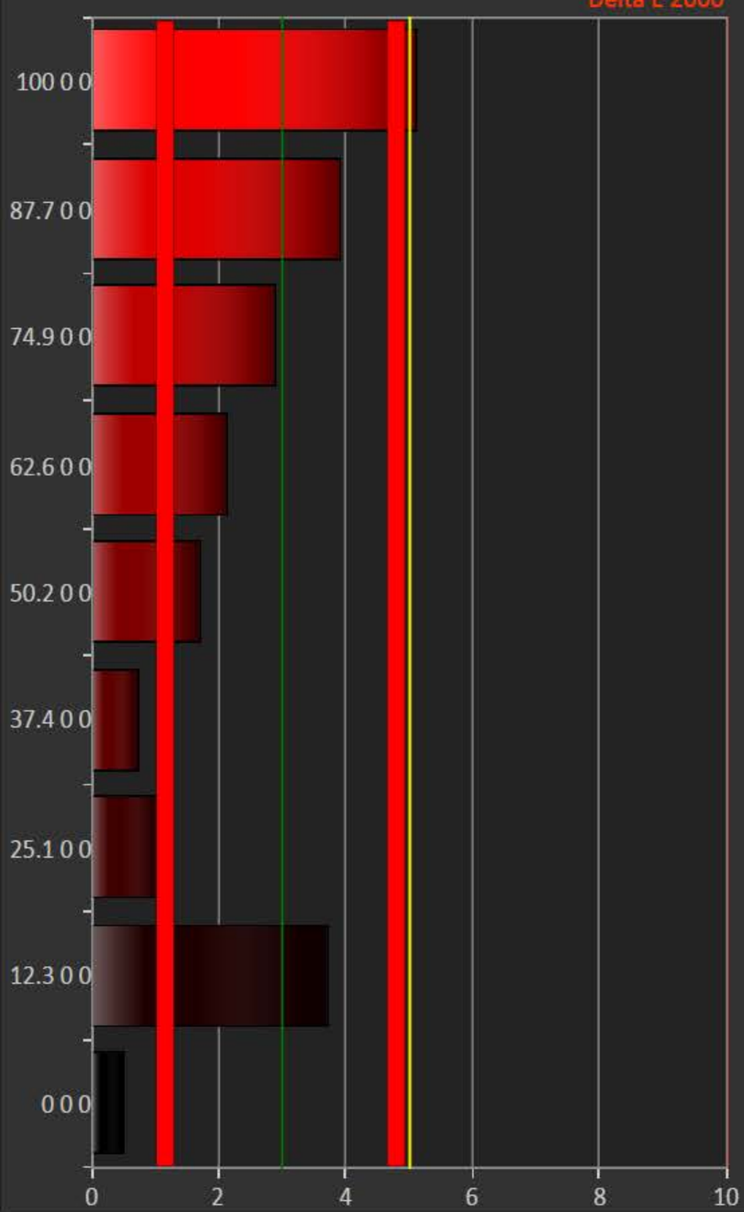
3D Color Cube LUT | 3D Cube LUT Minimal

Simulated Meter LCD Direct View | Source | Direct Display Control

3D Color Cube LUT Calibration - Full

Use tabs to select layout level

Delta E 2000



RGB Balance

dL -4.89 dH -0.56 dC -8.28

dE 5.12

@ 100 0 0

dE Summary

Max 5.12

@ 100 0 0

Avg 2.67

Y in fL Target = tgt

Summary

Delta E
Avg 2.67
Max 5.12

Delta L
Avg 2.26
Max 4.89

Delta H
Avg 0.97
Max 1.91

Delta C
Avg 1.9
Max 3.96

Points 153

Triplet 235, 16, 16

Y tgt 6.20665
4.98115

x tgt 0.64
0.63814

y tgt 0.33
0.32999

White 29.19

dE Avg 2.67

100 0 0 dE Max 5.12

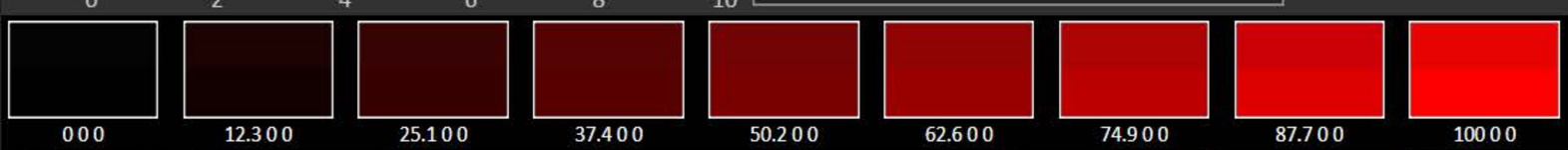
100 0 0 dE 5.12

Red | Green | Blue | Cyan | Magenta | Yellow | White | Ramp

Big Comparator | Notes | Color Bars

Luminance Level Points

9 Points per side, SMPTE (0-100), 12.5% steps



Inner Data Points | Display Slot | Selected LUT

Ramp | 16 | 16 | 0 0 0 | 12.3 0 0 | 25.1 0 0 | 37.4 0 0 | 50.2 0 0 | 62.6 0 0 | 74.9 0 0 | 87.7 0 0 | 100 0 0

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CAL
3D Cb

Back | Next | 3d+dta | Prepare | Setup | PreCal Read | DyRnge | Calibrate | Gray | Satur | Lumi | C Chk | 3d+dta | PostCal Read | Analyze | Charts | Final Check | 3D Cb | 3d+dta

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

3D Color Cube LUT | 3D Cube LUT Minimal

Simulated Meter LCD Direct View | Source | Direct Display Control

3D Color Cube LUT Calibration - Full

Delta E 2000

Use tabs to select layout level

Color Notes

Post-Calibration Notes

Calibration Description / Goals

Big

dL -4.41 dH -0.8 dC -7.94

dE 4.23

@ 78.500

dE Summary

Max 5.65

@ 14.600

Avg 4

Y in fL Target = tgt

Points 517

Triplet 188, 16, 16

Y tgt 3.62884
2.86087

x tgt 0.64
0.63676

y tgt 0.33
0.32999

White 29.19

dE Avg 4

14.600 dE Max 5.65

78.500 dE 4.23

Red | Green | Blue | Cyan | Magenta | Yellow | White | Ramp

Big Comparator | Notes | Color Bars | Luminance Level Points

43.800 45.700 47.500 49.300 51.100 53.00 54.800 56.600 58.400 60.300 62.100 63.900 65.800 67.600 69.400 71.200 73.100 74.900 76.700 78.500 80.400 82.200 84.00 85.80

Ramp 16 16

Back | Next | Notes

CAL 3D Cb

Back | Next | 3d+dta

Prepare | Setup | PreCal Read | DyRnge | Calibrate | Gray | Satur | Lumi | C Chk | 3d+dta | PostCal Read | Analyze | Charts | Final Check | 3D Cb | 3d+dta

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

3D Color Cube LUT | 3D Cube LUT Minimal

Simulated Meter LCD Direct View | Source | Direct Display Control

3D Color Cube LUT Calibration - Minimal

Use tabs to select layout level

View charts in the Analysis section

Summary

Points 517

White 29.19

dE Avg 4.07

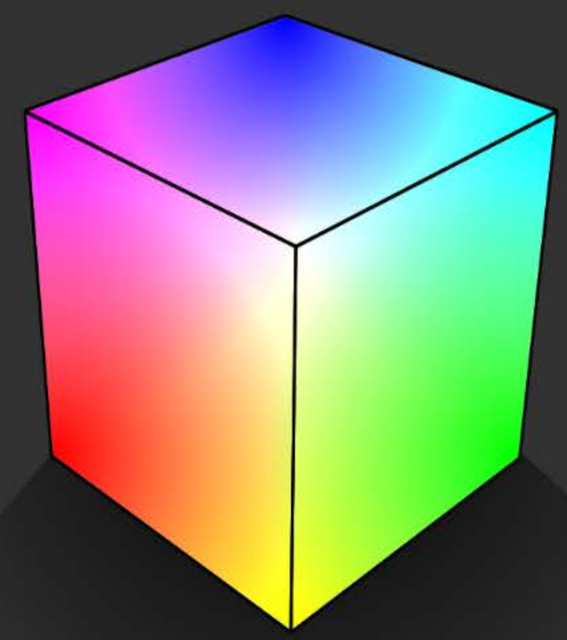
dE Max 12.9 @ 0 0 1.8

dE 3.41 @ 0 0 109.1

dL -3.61 dH -1.36 dC -11.72

RGB Balance

R -21.3 G 9.1 B -27.2



Luminance Level Points: 61 Points per side, SMPTE (0-109)

Inner Data Points

Display Slot

Selected LUT

CAL 3D Cb

Back | Next | 3d+dta | Prepare | Setup | PreCal Read | DyRnge | Calibrate | Gray | Satur | Lumi | C Chk | 3d+dta | PostCal Read | Analyze | Charts | Final Check | 3D Cb | 3d+dta

16 | 16 | Ramp

0 0 60.3 | 0 0 62.1 | 0 0 63.9 | 0 0 65.8 | 0 0 67.6 | 0 0 69.4 | 0 0 71.2 | 0 0 73.1 | 0 0 74.9 | 0 0 76.7 | 0 0 78.5 | 0 0 80.4 | 0 0 82.2 | 0 0 84 | 0 0 85.8 | 0 0 87.7 | 0 0 89.5 | 0 0 91.3 | 0 0 93.2 | 0 0 95 | 0 0 96.8 | 0 0 98.6 | 0 0 100.5 | 0 0 102.3 | 0 0 104.1 | 0 0 105.9 | 0 0 107.8 | 0 0 109.1

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Datagrid

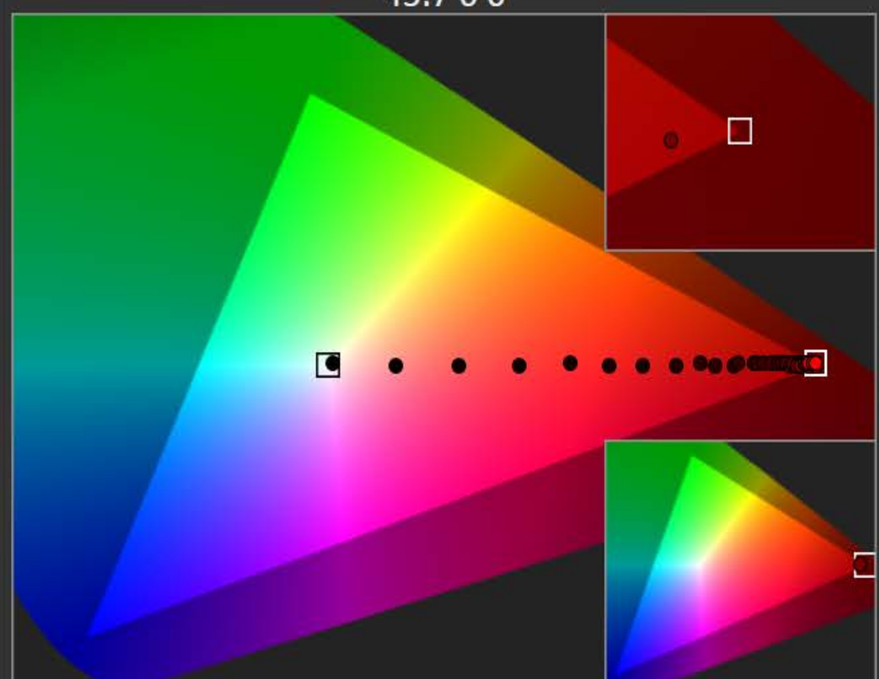
Simulated Meter LCD Direct View | Source | Direct Display Control

3D Color Cube LUT Calibration Data - Full

Color Notes

Post-Calibration Notes

45.700



White
Red
Green
Blue
Cyan
Magenta
Yellow

	000	1.800	3.700	5.500	7.300	9.100	11.00	12.800	14.600	16.400	18.300	20.10
RGB Triplet	16, 16, 16	20, 16, 16	24, 16, 16	28, 16, 16	32, 16, 16	36, 16, 16	40, 16, 16	44, 16, 16	48, 16, 16	52, 16, 16	56, 16, 16	60, 16
RedIndex	16.0000	20.0000	24.0000	28.0000	32.0000	36.0000	40.0000	44.0000	48.0000	52.0000	56.0000	60.00
GreenIndex	16.0000	16.0000	16.0000	16.0000	16.0000	16.0000	16.0000	16.0000	16.0000	16.0000	16.0000	16.00
BlueIndex	16.0000	16.0000	16.0000	16.0000	16.0000	16.0000	16.0000	16.0000	16.0000	16.0000	16.0000	16.00
X	0.0919	0.1216	0.1676	0.2178	0.2814	0.3533	0.4560	0.5573	0.6853	0.8325	0.9945	1.156
Y cd/m²	0.0966	0.1120	0.1381	0.1626	0.1963	0.2322	0.2849	0.3338	0.4045	0.4770	0.5582	0.648
Z	0.1034	0.1066	0.1138	0.1132	0.1144	0.1190	0.1286	0.1276	0.1295	0.1456	0.1501	0.161
Xn 0-1	0.0009	0.0012	0.0017	0.0022	0.0028	0.0035	0.0046	0.0056	0.0069	0.0083	0.0099	0.011
Yn 0-1	0.0010	0.0011	0.0014	0.0016	0.0020	0.0023	0.0028	0.0033	0.0040	0.0048	0.0056	0.006
Zn 0-1	0.0010	0.0011	0.0011	0.0011	0.0011	0.0012	0.0013	0.0013	0.0013	0.0015	0.0015	0.001
Stimulus Percent	0.0000	0.0183	0.0365	0.0548	0.0731	0.0913	0.1096	0.1279	0.1461	0.1644	0.1826	0.200
RED Stim%:0-1	0.0000	0.0183	0.0365	0.0548	0.0731	0.0913	0.1096	0.1279	0.1461	0.1644	0.1826	0.200
GRN Stim%:0-1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
BLU Stim%:0-1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
Measured Red Stimulus	0.0002	0.0154	0.0319	0.0473	0.0627	0.0775	0.0951	0.1106	0.1271	0.1440	0.1608	0.175
Measured Green Stimulus	0.0000	0.0000	0.0012	0.0005	0.0009	0.0004	0.0003	-0.0013	0.0008	-0.0007	-0.0018	0.001
Measured Blue Stimulus	-0.0005	0.0000	0.0012	0.0005	0.0000	0.0004	0.0016	0.0003	-0.0011	0.0015	0.0009	0.001
Stimulus	0.0000	2.0000	3.7000	5.5000	7.3000	9.0000	11.0000	13.0000	14.6000	16.4000	18.3000	20.00
Target X cd/m²	0.0919	0.2239	0.2749	0.3416	0.4251	0.5266	0.6469	0.7870	0.9477	1.1297	1.3339	1.560
Target Y cd/m²	0.0966	0.1155	0.1417	0.1761	0.2192	0.2715	0.3336	0.4058	0.4887	0.5825	0.6878	0.804
Target Z cd/m²	0.1052	0.0105	0.0129	0.0160	0.0199	0.0247	0.0303	0.0369	0.0444	0.0530	0.0625	0.073
Target Xn 0-1	0.0009	0.0022	0.0027	0.0034	0.0043	0.0053	0.0065	0.0079	0.0095	0.0113	0.0133	0.015
Target Yn 0-1	0.0010	0.0012	0.0014	0.0018	0.0022	0.0027	0.0033	0.0041	0.0049	0.0058	0.0069	0.008
Target Zn 0-1	0.0011	0.0001	0.0001	0.0002	0.0002	0.0002	0.0003	0.0004	0.0004	0.0005	0.0006	0.000
TargetGamut:Nrml Y	0.0010	0.0054	0.0066	0.0083	0.0103	0.0127	0.0156	0.0190	0.0229	0.0273	0.0322	0.037
TargetRED:Lin0-1	0.0010	0.0054	0.0067	0.0083	0.0103	0.0128	0.0157	0.0191	0.0230	0.0274	0.0323	0.037
TargetGRN:Lin0-1	0.0010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
TargetBLU:Lin0-1	0.0010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
TargetGamut:Nrml MaxY	1.0000	0.2134	0.2134	0.2134	0.2134	0.2134	0.2134	0.2134	0.2134	0.2134	0.2134	0.213
Target x:CIE31	0.3127	0.6400	0.6400	0.6400	0.6400	0.6400	0.6400	0.6400	0.6400	0.6400	0.6400	0.640
Target y:CIE31	0.3290	0.3300	0.3300	0.3300	0.3300	0.3300	0.3300	0.3300	0.3300	0.3300	0.3300	0.330

Ramp | 16 | 16

000 | 1.800 | 3.700 | 5.500 | 7.300 | 9.100 | 11.00 | 12.800 | 14.600 | 16.400 | 18.300 | 20.100 | 21.900 | 23.700 | 25.600 | 27.400 | 29.200 | 31.100 | 32.900 | 34.700

CAL | Calib | Prepare | Calibrate | Calib | Analyze | Charts | CAL | Calib

Detail Charts

Notes Mgmt

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Post-Cal Readings

Simulated Meter LCD Direct View | Source | Direct Display Control

Post-Calibration Readings

12/27/2014 Calibration

Gamma Breakout Tot 2.21 Y Min 0 Y Max 23.8

1 Grayscale | Full Charts | 20 Point 5% step 5-100% | 100 | Avg 2.24 Max 3.66

DeltaE 1.64

4 Color Checker | Full Charts | Add Custom Color Set → | SG Fleshtones

100% Yellow

100% Magenta, 100% Blue, 100% Red, Magenta, Red, Blue, Yellow Green, Moderate Red, Orange, Blue Flower, Blue Sky, Dark Skin, Gray 50, Gray 80, 100% Yellow, 100% Cyan, 100% Green, Cyan, Yellow, Green, Orange Yellow, Purple, Purplish Blue, Bluish Green, Foliage, Light Skin, Gray 35, Gray 65, White

DeltaE 0.9 Avg 1.93 Max 3.26

2 Saturation Sweeps | Full Charts | 25% Sweeps | Avg 0.87 Max 2.94

100%

DeltaE 0.51

3 Gamut Luminance | Full Charts | 4 Point 25% step 25-100% | Avg 1.78 Max 3.61

100

DeltaE 0.59

Select Base Colors

Populate CMS for HT report

CAL PstCal Read

Back Next PreCal Read Prepare Setup PreCal Read DyRnge Calibrate Gray Satur Lumi C Chk 3d Cb PreCal Read Analyze Gray Satur Lumi C Chk 3d Cb Final Check PstCal

ISF Day

Post-Cal Readings

Contrast | Brightness | Backlight | TV Gamma | Color | Tint | Red Green Blue | Gain | Cut

Post-Cal Notes | Big

Display Slot

Use [···] mid-screen or below to read all series or select one from the individual series above

PreCal Read Notes Back Next

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

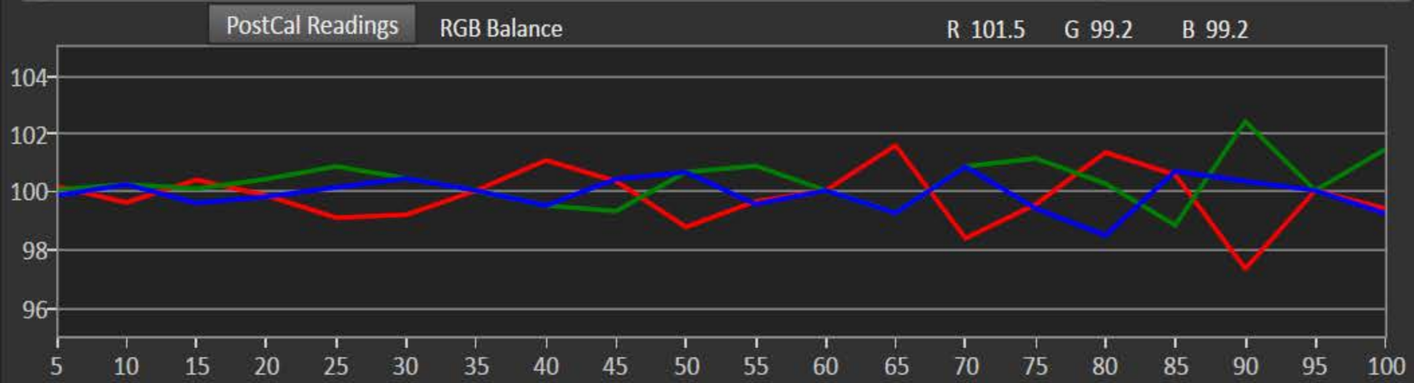
Post-Calibration

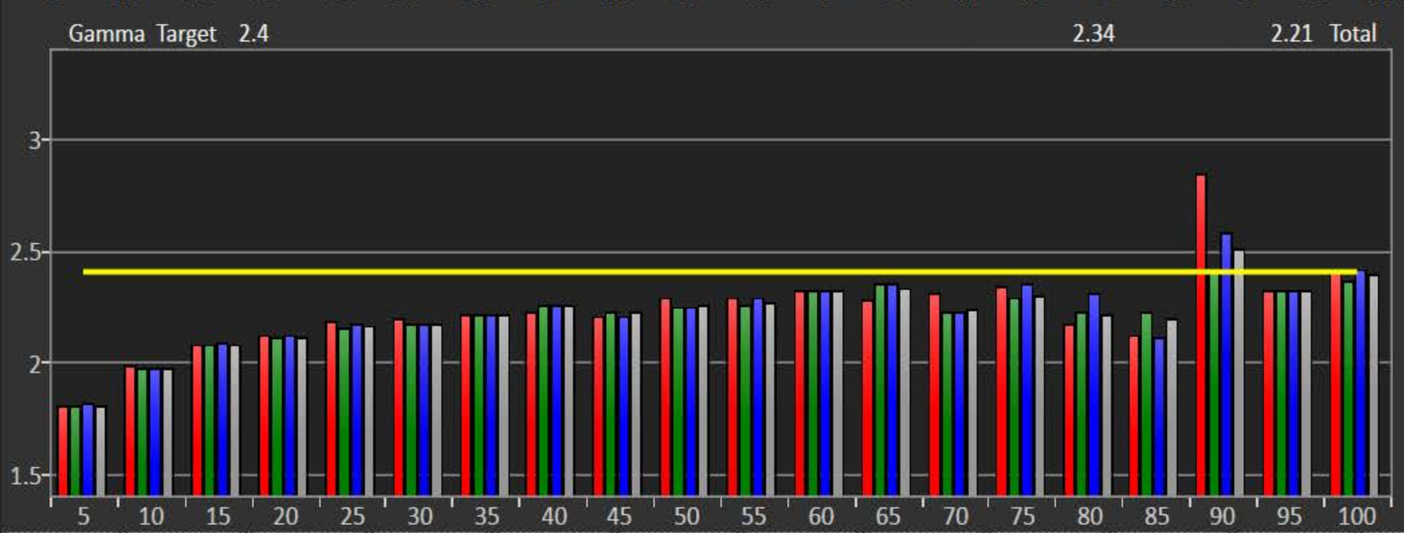
Simulated Meter LCD Direct View | Source | Direct Display Control

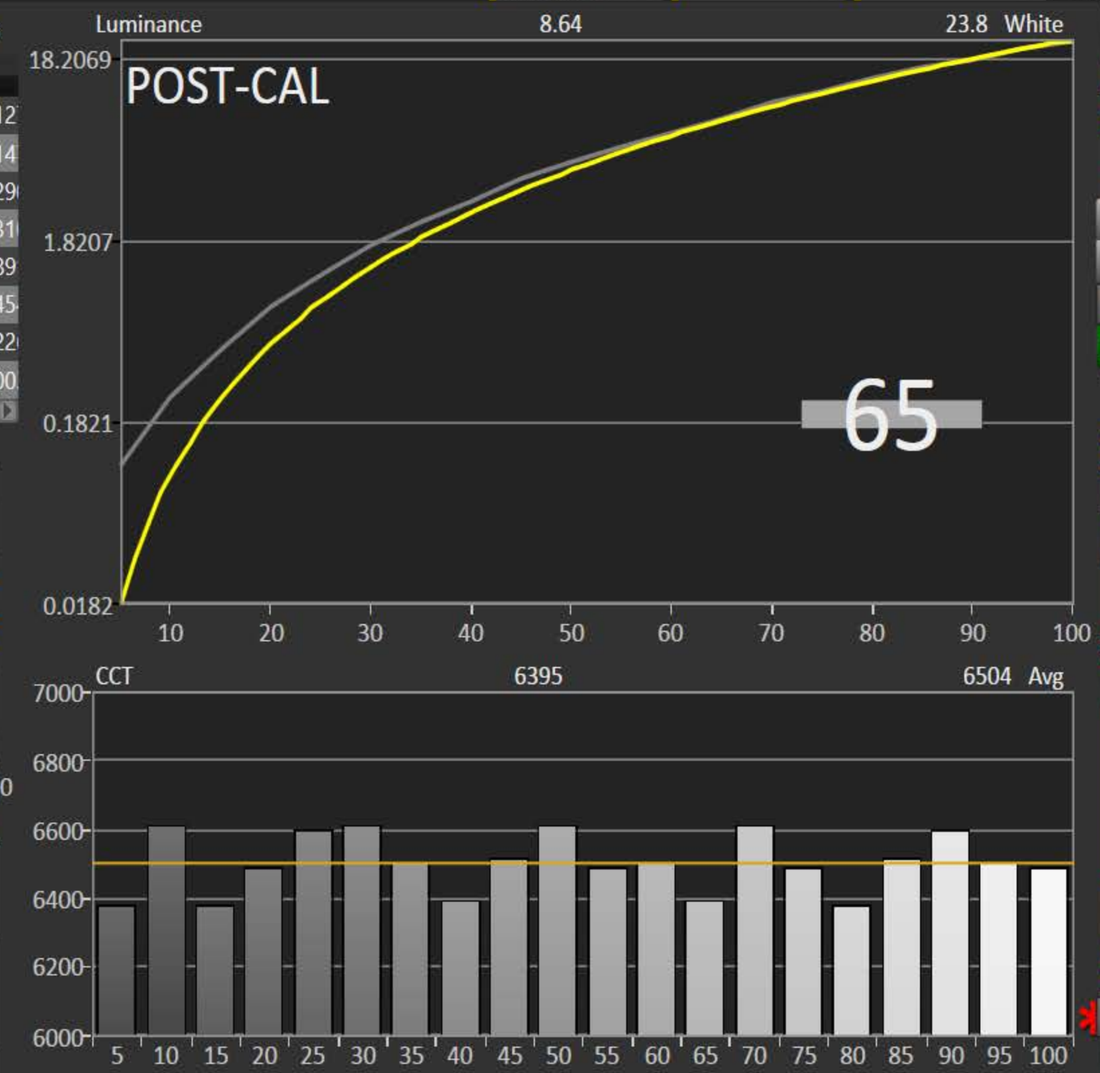
Post-Cal Grayscale Detail

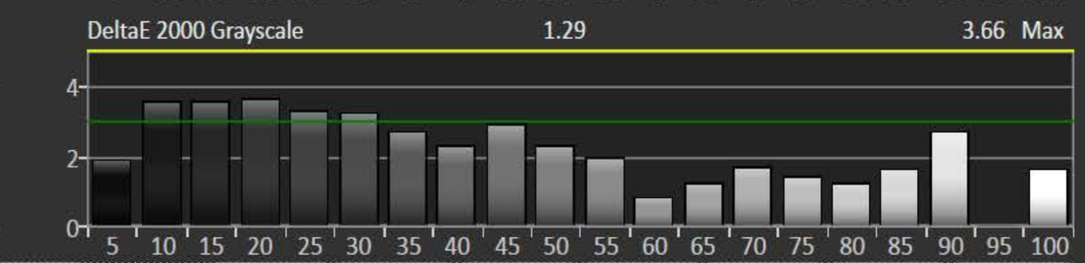
Notes

	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Target x:CIE31	0.3127	0.3127	0.3127	0.3127	0.3127	0.3127	0.3127	0.3127	0.3127	0.3127	0.3127	0.3127	0.3127	0.3127	0.3127	0.312
x: CIE31	0.3147	0.3107	0.3147	0.3127	0.3107	0.3107	0.3127	0.3147	0.3127	0.3107	0.3127	0.3127	0.3147	0.3107	0.3127	0.314
Target y:CIE31	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.329
y: CIE31	0.3310	0.3290	0.3310	0.3310	0.3310	0.3290	0.3290	0.3290	0.3270	0.3290	0.3310	0.3290	0.3290	0.3290	0.3310	0.331
Target Y	0.0182	0.0959	0.2537	0.5059	0.8640	1.3382	1.9371	2.6687	3.5404	4.5588	5.6174	6.9332	8.4133	10.0630	11.8873	13.89
Y	0.1065	0.2552	0.4630	0.7995	1.1939	1.7457	2.3444	3.0384	4.0661	5.0091	6.0628	7.2169	8.6437	10.6450	12.2183	14.45
Gamma Point: Flat	1.8093	1.9741	2.0821	2.1147	2.1659	2.1783	2.2174	2.2577	2.2256	2.2632	2.2731	2.3220	2.3376	2.2432	2.3050	2.222
ΔE 2000	1.9615	3.6235	3.6453	3.6596	3.3739	3.2755	2.7490	2.3538	2.9770	2.3164	2.0072	0.8924	1.2850	1.7483	1.4585	1.300









5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

ANL PstCal Gray | Back | Next | PreCal | D-Grid | Prepare | Setup | PreCal Read | Calibrate | Gray | PostCal Read | Analyze | PreCal | Satur | Lumi | C Chk | 3d Cb | Final Check | PstCal | Gray | D-Grid

Notes Mgmt | Pre-Cal

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CalMAN 5 CalMAN Enthusiast for Home Video

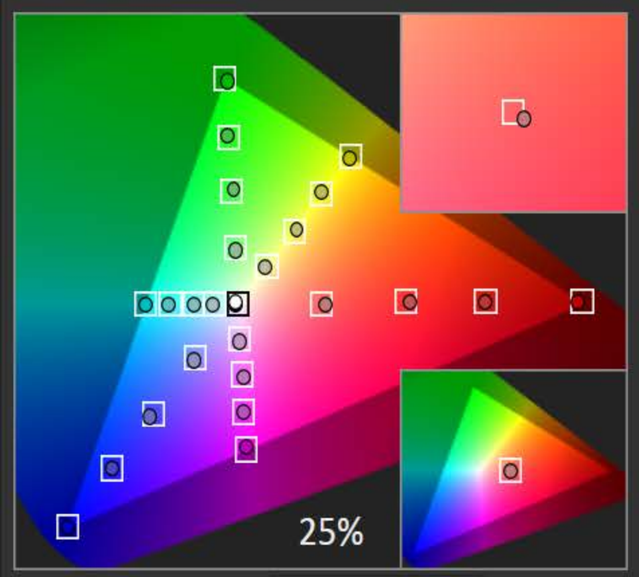
CalMAN 5

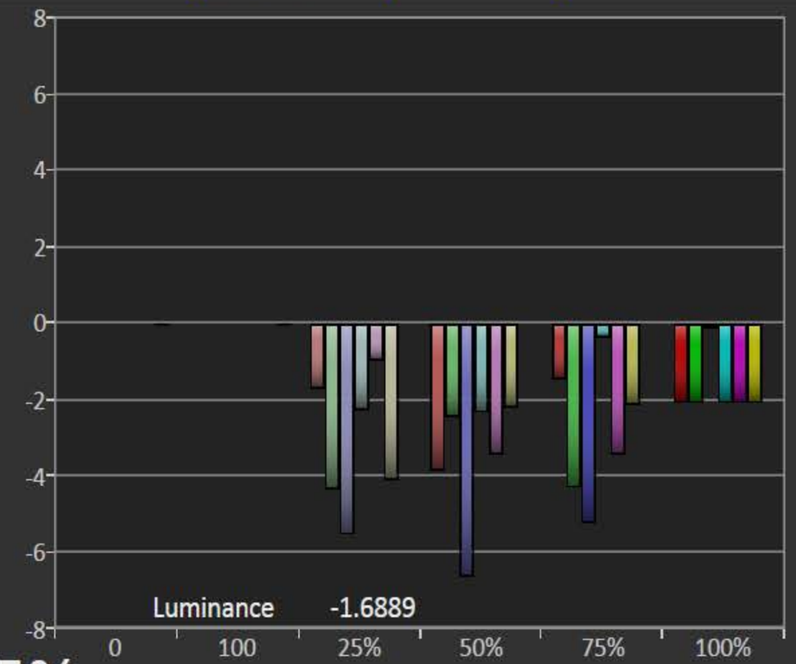
Post-Calibration

Simulated Meter LCD Direct View | Source | Direct Display Control

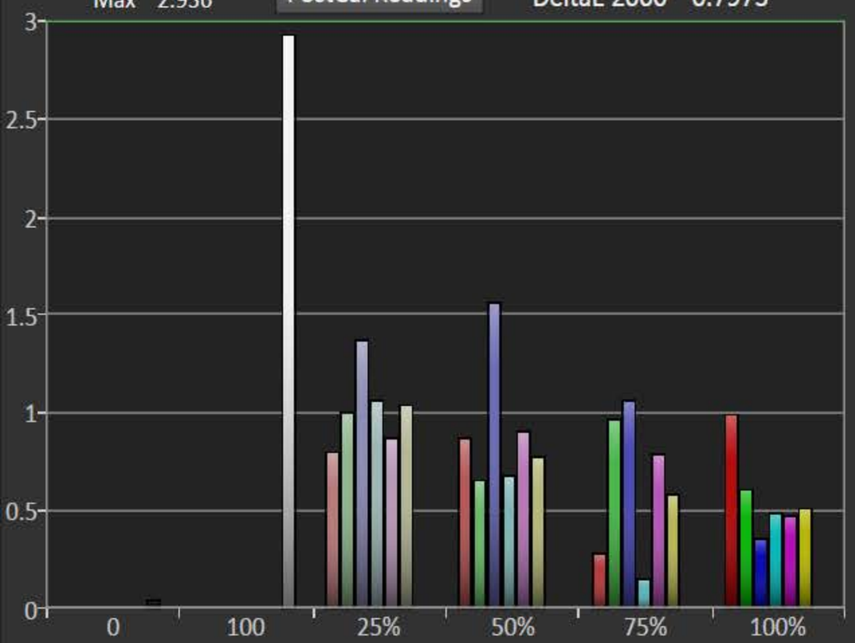
Post-Cal Saturation Sweeps Detail

Notes





Max 2.936 PostCal Readings DeltaE 2000 0.7973



25% 50% 75% 100%

PostCal 25% PostCal

ANL PstCal Satur Back Next PreCal D-Grid Prepare Setup PreCal Read Calibrate Satur PostCal Read Analyze Gray PreCal Lumi C Chk 3d Cb Final Check PstCal Satur D-Grid

Notes Mgmt Pre-Cal

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CalMAN 5 CalMAN Enthusiast for Home Video

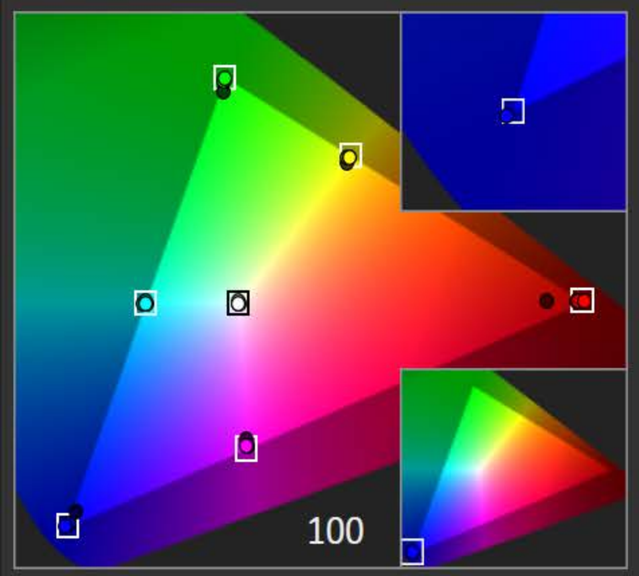
CalMAN 5

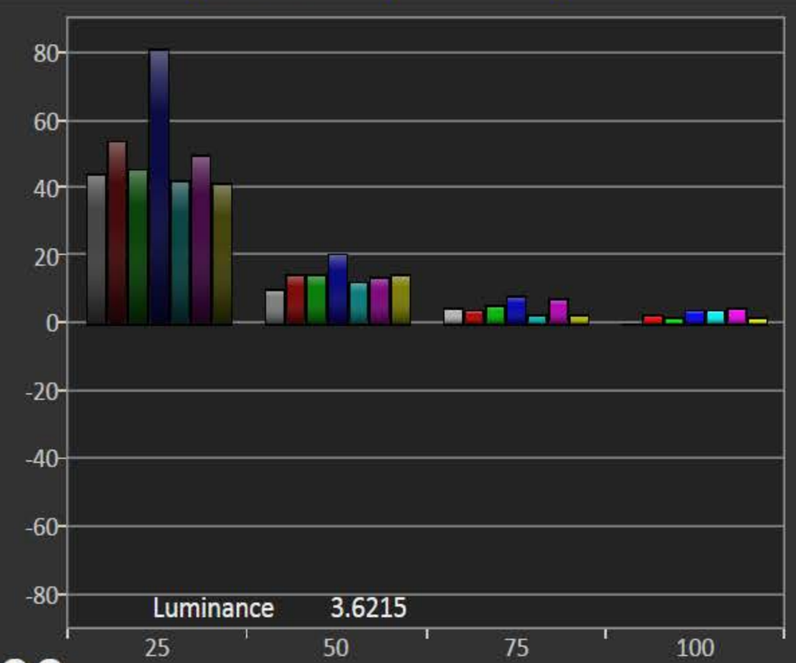
Post-Calibration

Simulated Meter LCD Direct View | Source | Direct Display Control

Post-Cal Gamut Luminance Detail

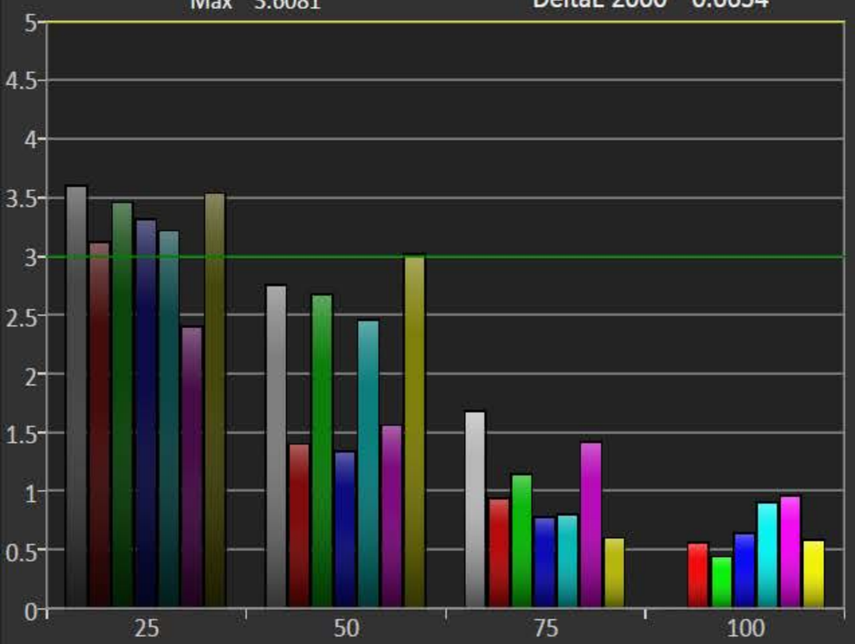
Notes





Max 3.6081 DeltaE 2000 0.6634

PostCal | PostCal Readings | 100 | PostCal



25 | 50 | 75 | 100

ANL | PstCal | Lumi | Back | Next | PreCal | D-Grid | Prepare | Setup | PreCal Read | Calibrate | Lumi | PostCal Read | Analyze | Gray | Satur | PreCal | C Chk | 3d Cb | Final Check | PstCal | Lumi | D-Grid

Notes Mgmt | Pre-Cal

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Post-Calibration

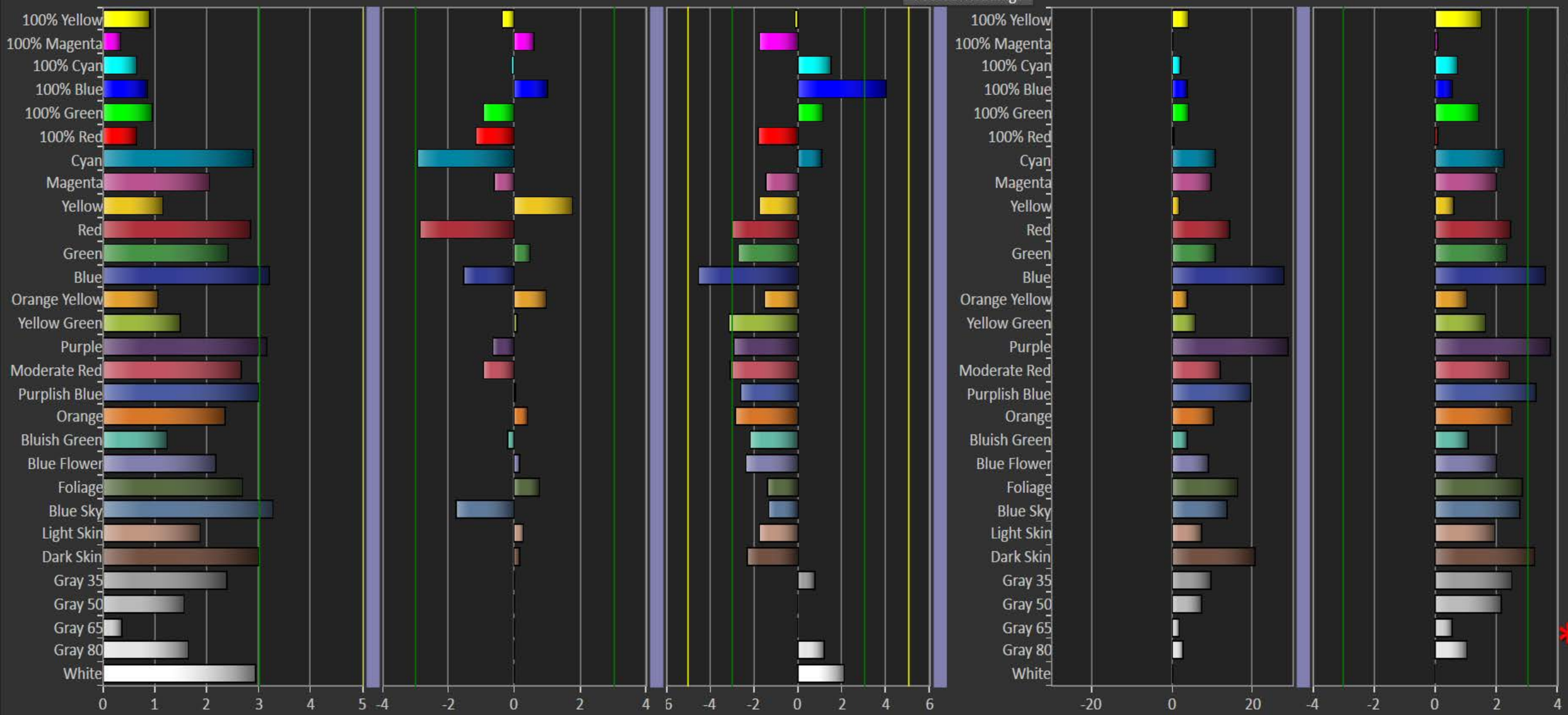
Simulated Meter LCD Direct View | Source | Direct Display Control

Post-Cal Color Checker Detail

PostCal - Blue Flower

Color Notes | Big | Post-Cal Notes | CIE Chart | PostCal Readings

DeltaE 2000 2.191 Max 3.264 | DeltaH 0.179 Max 2.98 | DeltaC -2.35 Max 4.519 | Gamut Luminance 8.944 | DeltaL 1.994 Max 3.773



White | Gray 80 | Gray 65 | Gray 50 | Gray 35 | Dark Skin | Light Skin | Blue Sky | Foliage | Blue Flower | Bluish Green | Orange | Purplish Blue | Moderate Red | Purple | Yellow Green | Orange Yellow | Blue | Green | Red | Yellow | Magenta | Cyan

ANL | PstCal | CChkr | Back | Next | PreCal | D-Grid | Prepare | Setup | PreCal Read | Calibrate | C Chk | PostCal Read | Analyze | Gray | Satur | Lumi | PreCal | 3d Cb | Final Check | PstC | CChk | D-Grid

Notes Mgmt | Pre-Cal

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Post-Calibration

Simulated Meter LCD Direct View | Source | Direct Display Control

Post-Cal Color Checker Detail

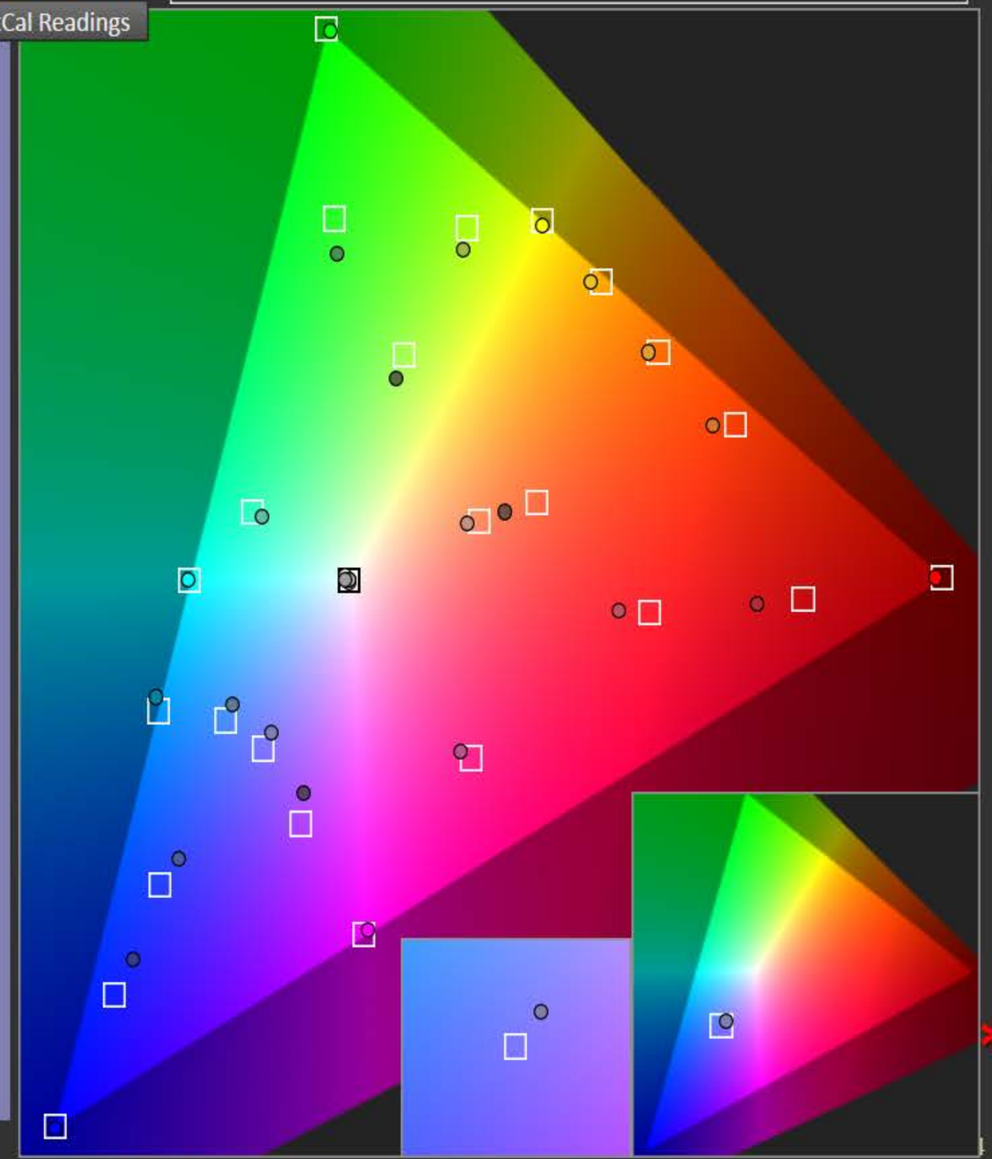
PostCal - Blue Flower

DeltaE 2000 2.191 Max 3.264 | DeltaH 0.179 Max 2.98 | DeltaC -2.35 Max 4.519

Color Notes | Big | Post-Cal Notes

CIE Chart

PostCal Readings



ANL | PstCal | CChkr | Back | Next | PreCal | D-Grid | Prepare | Setup | PreCal Read | Calibrate | C Chk | PostCal Read | Analyze | Gray | Satur | Lumi | PreCal | 3d Cb | Final Check | PstC | CChk | D-Grid

White | Gray 80 | Gray 65 | Gray 50 | Gray 35 | Dark Skin | Light Skin | Blue Sky | Foliage | Blue Flower | Bluish Green | Orange | Purplish Blue | Moderate Red | Purple | Yellow Green | Orange Yellow | Blue | Green | Red | Yellow | Magenta | Cyan

Notes Mgmt | Pre-Cal

Back | Next

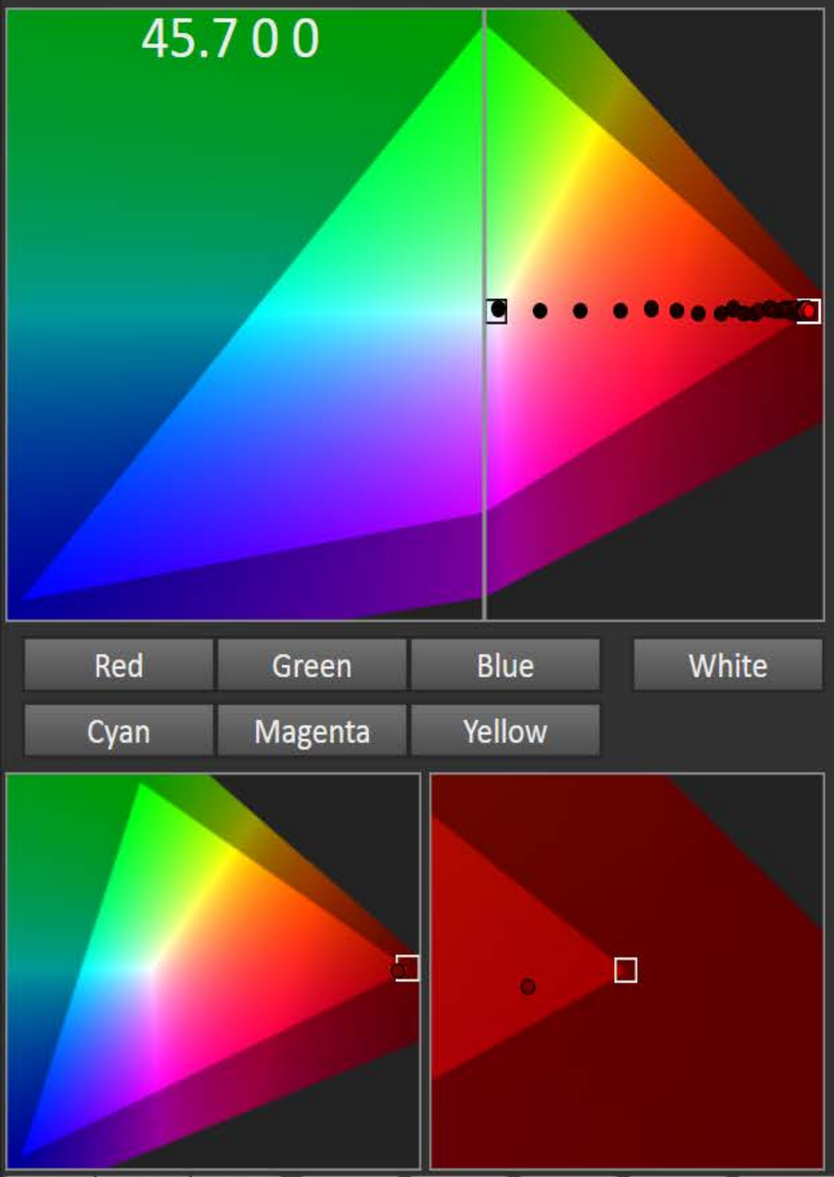
CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

DeltaE DeltaL Lminance | DeltaE DeltaH DeltaC

Simulated Meter LCD Direct View | Source | Direct Display Control

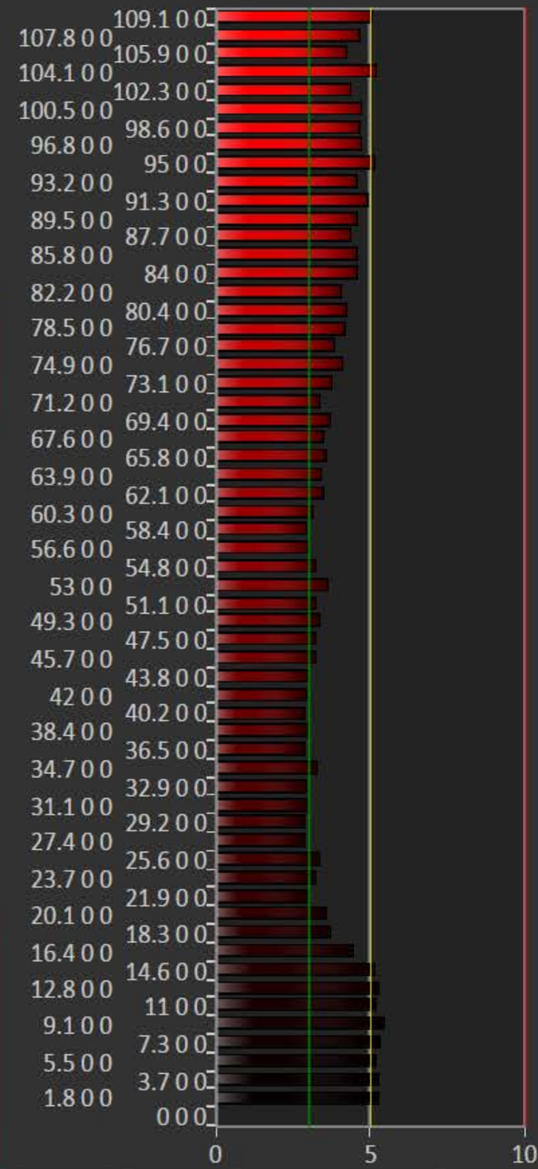
3D Color Cube LUT Full Calibration Detail 1



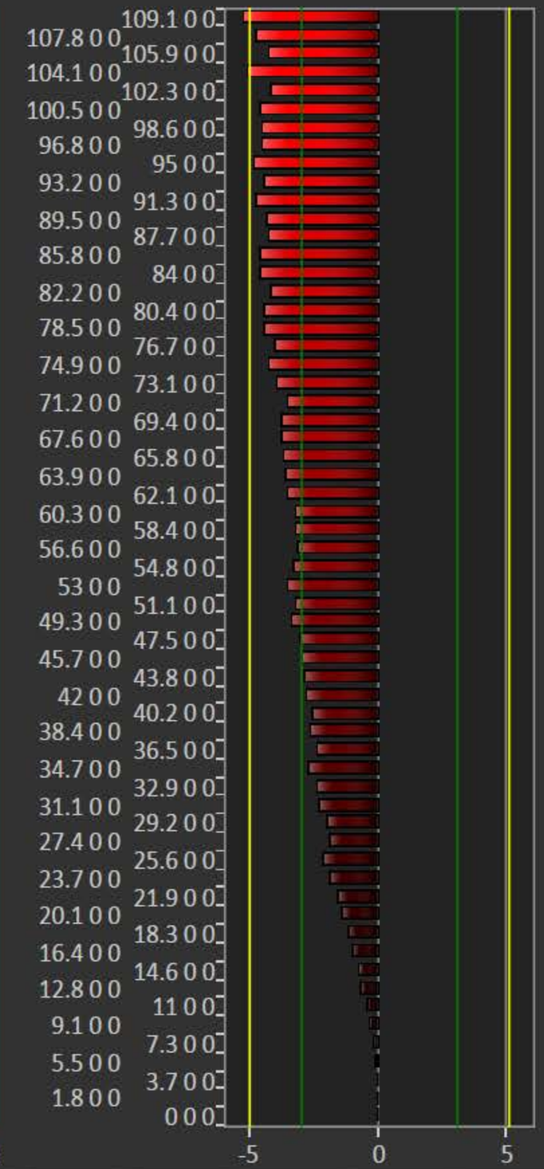
Red | Green | Blue | White

Cyan | Magenta | Yellow

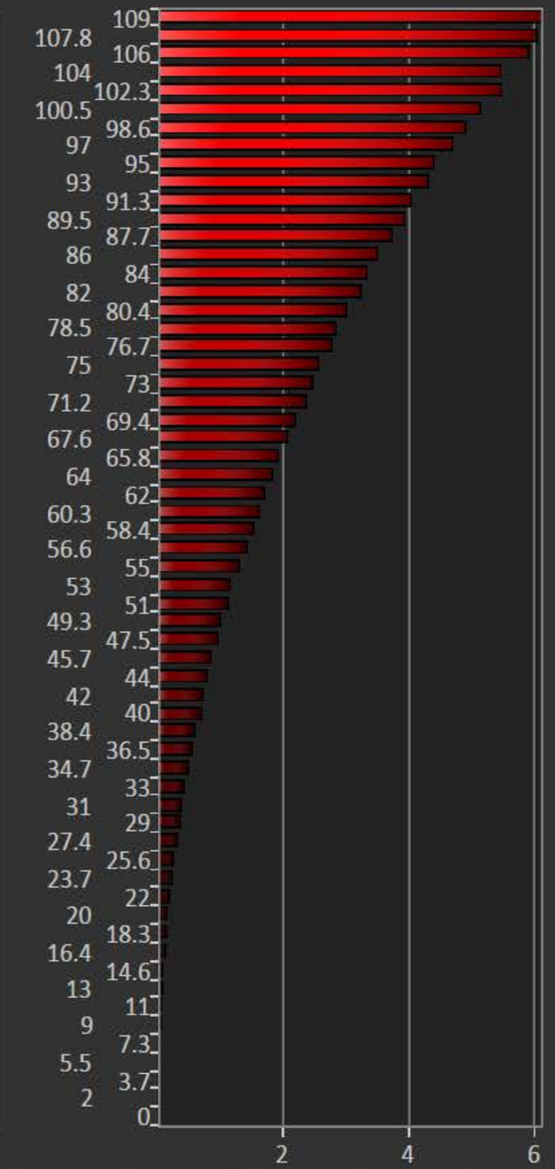
ΔE 2000 3.26 Avg 3.96 Max 5.44



Delta L -2.96 Avg -3.01 Max 5.19



Luminance 0.8889



ANL 3D Cb Detail

Back | Next | Calib

Prepare | Setup | PreCal Read | Calibrate | Calib | PostCal Read | Analyze | Gray | Satur | Lumi | C Chk | Calib | chrts2 | Final Check | CAL | Calib

Ramp | 16 | 16

000 | 1.800 | 3.700 | 5.500 | 7.300 | 9.100 | 11.00 | 12.800 | 14.600 | 16.400 | 18.300 | 20.100 | 21.900 | 23.700 | 25.600 | 27.400 | 29.200 | 31.100 | 32.900 | 34.700

Detail Charts 2 | Datagrid

Back | Next

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

DeltaE DeltaL Lminance | DeltaE DeltaH DeltaC

Simulated Meter LCD Direct View | Source | Direct Display Control

3D Color Cube LUT Minimal Calibration - Charts1

ΔE 2000 3.41 Avg 4.07 Max 12.9

Delta L -3.61 Avg -2.47 Max 5.19

Luminance 2.09075

Red | Green | Blue | White

Cyan | Magenta | Yellow | Comparator

Actual / Target

0 0 0 | 0 0 1.8 | 0 0 3.7 | 0 0 5.5 | 0 0 7.3 | 0 0 9.1 | 0 0 11 | 0 0 12.8 | 0 0 14.6 | 0 0 16.4 | 0 0 18.3 | 0 0 20.1 | 0 0 21.9 | 0 0 23.7 | 0 0 25.6 | 0 0 27.4 | 0 0 29.2 | 0 0 31.1 | 0 0 32.9 | 0 0 34.7 | 0 0 36.5 | 0 0 38.4 | 0 0 40.2

16 | 16 | Ramp

ANL | 3D Cb | Detail | Back | Next | Calib | Prepare | Setup | PreCal Read | Calibrate | Calib | PostCal Read | Analyze | Gray | Satur | Lumi | C Chk | Calib | chrts2 | Final Check | CAL | Calib

Detail Charts 2 | Datagrid

Back | Next

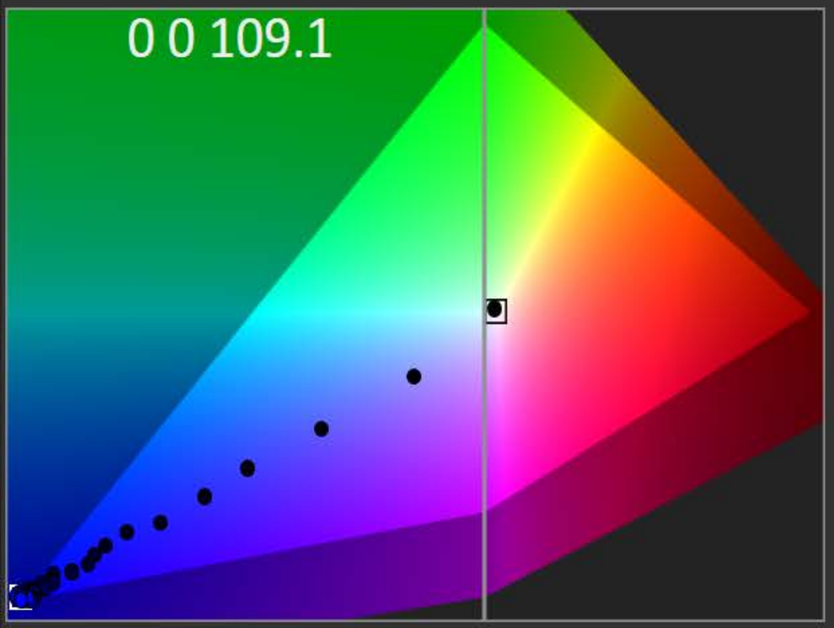
CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

DeltaE DeltaL Lminance | DeltaE DeltaH DeltaC

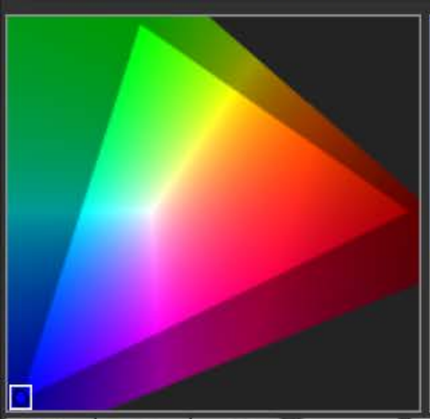
Simulated Meter LCD Direct View | Source | Direct Display Control

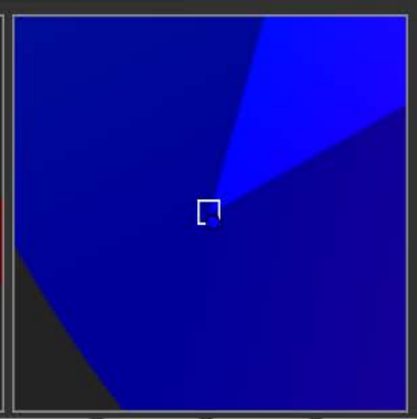
3D Color Cube LUT Full Calibration Detail 2

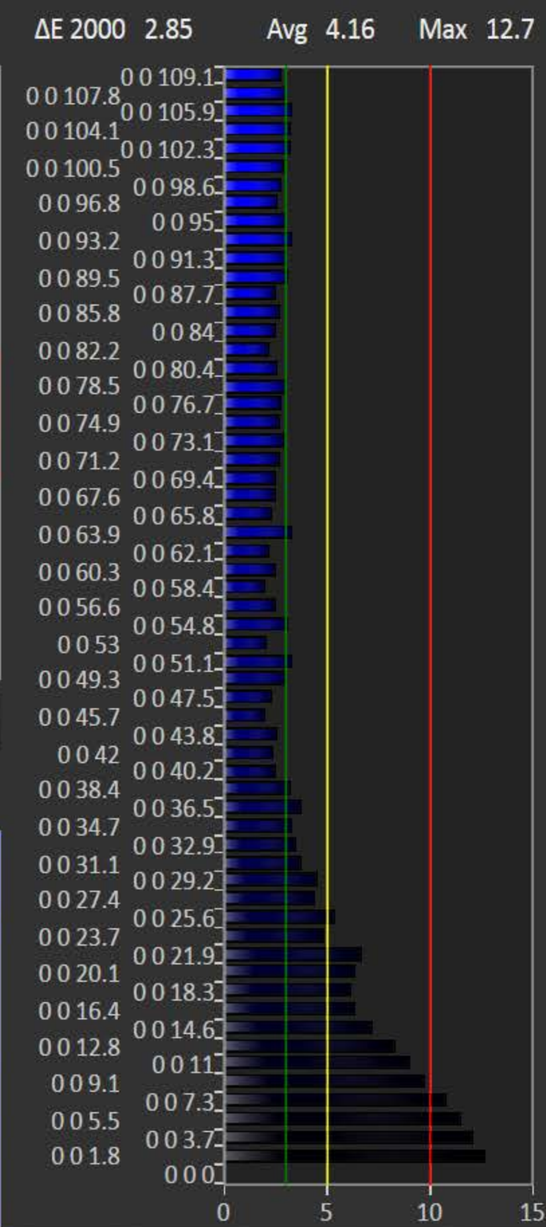


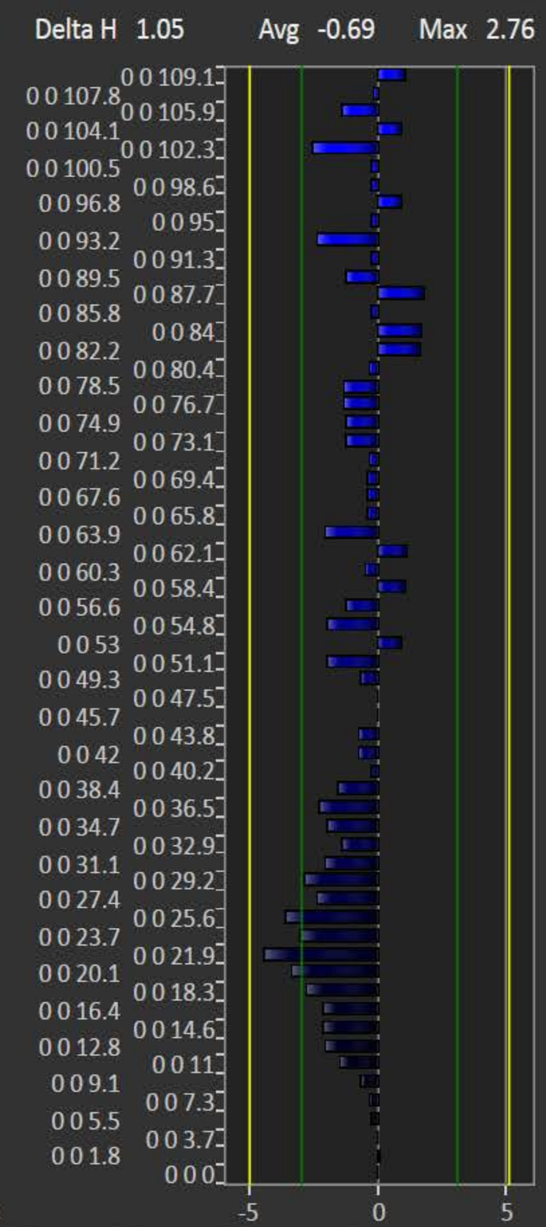
Red | Green | Blue | White

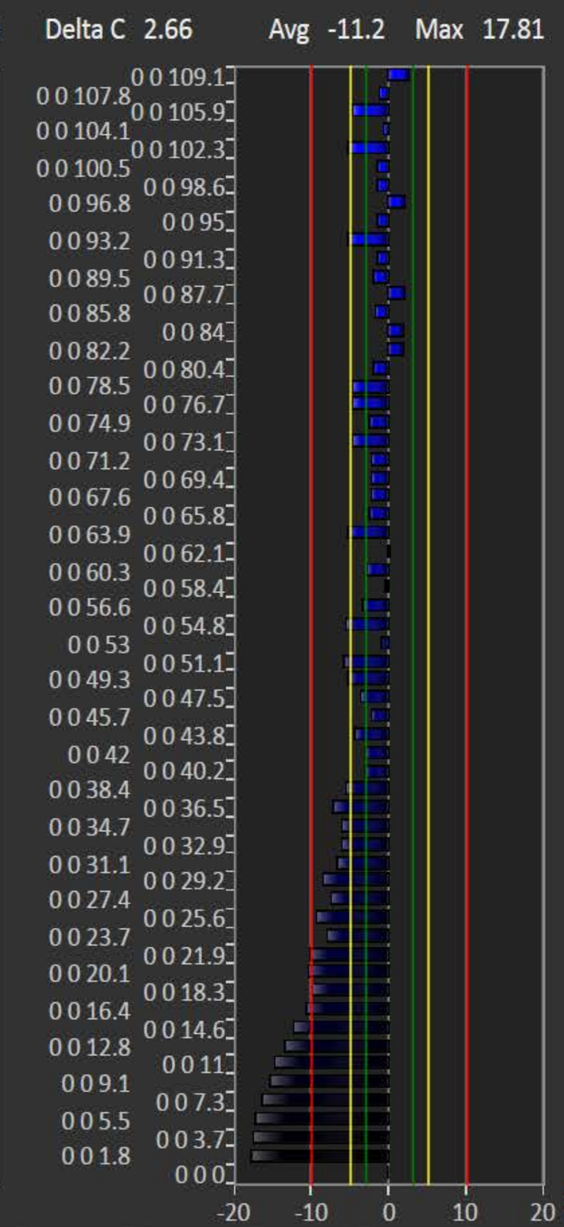
Cyan | Magenta | Yellow











ANL

3D Cb Detail

Back | Next | Calib

Prepare | Setup | PreCal Read | Calibrate | Calib | PostCal Read | Analyze | Gray | Satur | Lumi | C Chk | Calib | chrts1 | Final Check | CAL | Calib

16 | 16 | Ramp

0 0 0 | 0 0 1.8 | 0 0 3.7 | 0 0 5.5 | 0 0 7.3 | 0 0 9.1 | 0 0 11 | 0 0 12.8 | 0 0 14.6 | 0 0 16.4 | 0 0 18.3 | 0 0 20.1 | 0 0 21.9 | 0 0 23.7 | 0 0 25.6 | 0 0 27.4 | 0 0 29.2 | 0 0 31.1 | 0 0 32.9 | 0 0 34.7

Detail Charts 1 | Datagrid

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Final Check

Simulated Meter LCD Direct View | Source | Direct Display Control

Session Final Check

12/28/2014 Calibration

AV Mode - ISF Day

Contrast Verification

Data Points: select Clipping or Clipping with Peak White:

① Adjust the Backlight, Brightness and Contrast controls to optimize the white level so it doesn't clip any of the primaries.

Gamma Level Verification

Data Points: select a full set of grayscale points, e.g. 11: 23 Point 5% step 0-109%

② Check / adjust the gamma level across the full grayscale. Use the Backlight, Brightness, Contrast and Gamma controls to make this adjustment.

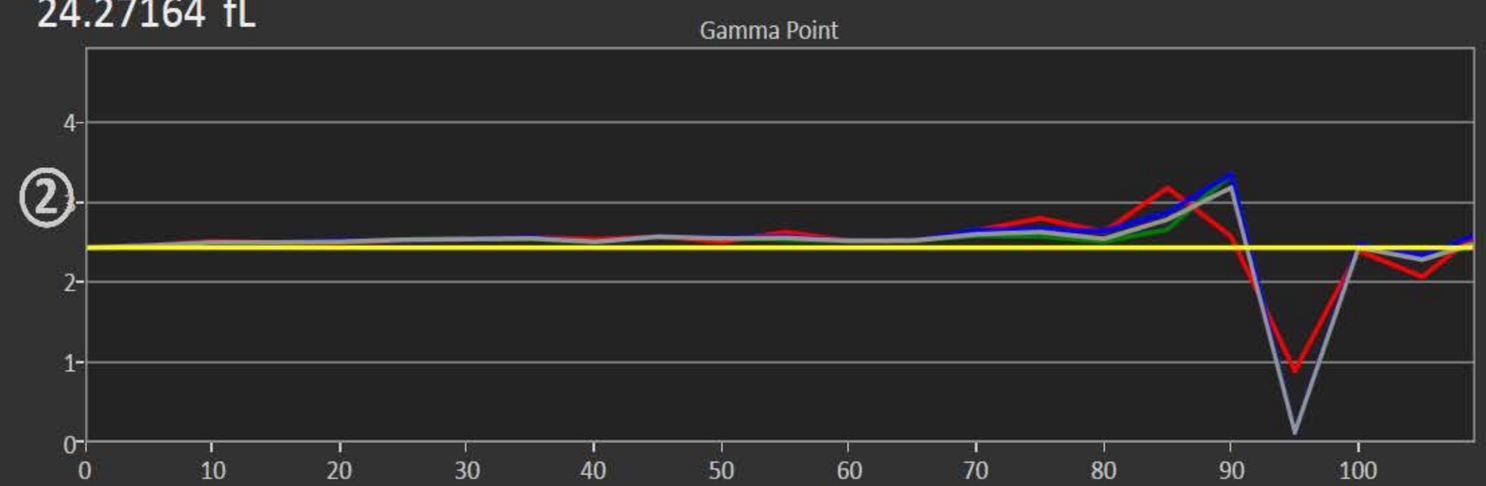
Post-Calibration Summary

Grayscale dE	Avg	1.02	Saturation dE	Avg	0.75
	Max	2.06		Max	2.94
Luminance dE	Avg	1.45	Color Checker dE	Avg	1.84
	Max	3.09		Max	3.43
Color Cube LUT dE	Avg	3.48 Full	Gamma Target		2.4
Use Minimal layout data	Max	4.3	Total		2.27
LUT values come from calibration Full layout, or Minimal layout if checked			CCT Target		6503
			Avg		6499
White	23.32	fL	Black	0.02821	Cntr Ratio 827

100

Gamma 2.4

24.27164 fL



Post-Calibration Notes

Big

Contrast		TV Gamma			Red	Green	Blue
Brightness		Color		Gain			
Backlight		Tint		Cut			

Notes Management

ANL Final Check

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Prepare | Setup | PreCal Read | DyRnge | Calibrate | Gray | Satur | Lumi | C Chk | 3d Cb | PostCal Read | Analyze | Gray | Satur | Lumi | C Chk | 3d Cb | Final Check | Final

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 109

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Grayscale Datagrids

Simulated Meter LCD Direct View | Source | Direct Display Control

Pre-Cal Multi-Point Grayscale Data

Pre-Cal

	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
RGB Triplet	27, 27, 27	38, 38, 38	49, 49, 49	60, 60, 60	71, 71, 71	82, 82, 82	93, 93, 93	104, 104, 104	115, 115, 115	126, 126, 126	136, 136, 136	147, 147, 147	158, 158, 158	169, 169, 169	180, 180, 180	191, 191, 191	202, 202, 202	213, 213,
RedIndex	27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000	213.0000
GreenIndex	27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000	213.0000
BlueIndex	27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000	213.0000
X	0.3398	0.7886	1.5384	2.6035	3.7630	5.4618	7.5858	10.1609	12.9030	16.8470	19.8643	23.9812	28.1480	34.2030	40.5715	46.7875	52.4250	60.6267
Y cd/m²	0.3575	0.8401	1.6186	2.7392	4.0089	5.7466	8.0326	10.6227	13.6582	17.5056	20.7729	25.2315	29.6155	35.7574	42.7003	49.5260	55.8506	63.7674
Z	0.3893	0.9093	1.7625	2.9828	4.3389	6.2576	8.7957	11.5026	14.7003	19.1787	22.8853	27.4750	32.2488	38.7195	47.3037	53.3046	60.4492	68.2473
Xn 0-1	0.0042	0.0097	0.0189	0.0319	0.0462	0.0670	0.0930	0.1246	0.1583	0.2066	0.2436	0.2941	0.3452	0.4195	0.4976	0.5739	0.6430	0.7436
Yn 0-1	0.0044	0.0103	0.0199	0.0336	0.0492	0.0705	0.0985	0.1303	0.1675	0.2147	0.2548	0.3095	0.3632	0.4386	0.5237	0.6075	0.6850	0.7821
Zn 0-1	0.0048	0.0112	0.0216	0.0366	0.0532	0.0768	0.1079	0.1411	0.1803	0.2352	0.2807	0.3370	0.3955	0.4749	0.5802	0.6538	0.7414	0.8371
Stimulus Percent	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995
RED Stim%:0-1	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995
GRN Stim%:0-1	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995
BLU Stim%:0-1	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995

Post-Cal Multi-Point Grayscale Data

Post-Cal

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
RGB Triplet	16, 16, 16	27, 27, 27	38, 38, 38	49, 49, 49	60, 60, 60	71, 71, 71	82, 82, 82	93, 93, 93	104, 104, 104	115, 115, 115	126, 126, 126	136, 136, 136	147, 147, 147	158, 158, 158	169, 169, 169	180, 180, 180	191, 191, 191	202, 202, 202
RedIndex	16.0000	27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000
GreenIndex	16.0000	27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000
BlueIndex	16.0000	27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000
X	0.0950	0.3489	0.8362	1.5889	2.5370	3.8102	5.6074	7.5885	10.0317	13.0645	15.9806	19.6173	24.1279	28.7315	33.3059	39.7887	46.1490	53.0832
Y cd/m²	0.1006	0.3648	0.8744	1.6510	2.6855	4.0089	5.8639	8.0326	10.6227	13.6582	16.8191	20.7729	25.2315	30.2198	35.0423	41.8630	48.5549	55.8506
Z	0.1101	0.3950	0.9633	1.8088	2.8904	4.3653	6.4602	8.6455	11.6318	14.7896	18.6323	22.7462	27.7973	32.3429	38.1581	45.5854	52.8722	60.8167
Xn 0-1	0.0011	0.0042	0.0101	0.0191	0.0305	0.0458	0.0674	0.0913	0.1206	0.1571	0.1922	0.2359	0.2901	0.3455	0.4005	0.4785	0.5549	0.6383
Yn 0-1	0.0012	0.0044	0.0105	0.0199	0.0323	0.0482	0.0705	0.0966	0.1277	0.1642	0.2022	0.2498	0.3034	0.3634	0.4214	0.5034	0.5839	0.6716
Zn 0-1	0.0013	0.0048	0.0116	0.0218	0.0348	0.0525	0.0777	0.1040	0.1399	0.1778	0.2241	0.2735	0.3343	0.3889	0.4588	0.5482	0.6358	0.7313
Stimulus Percent	0.0000	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493
RED Stim%:0-1	0.0000	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493
GRN Stim%:0-1	0.0000	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493
BLU Stim%:0-1	0.0000	0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493

Click Change Selection then right-click on either datagrid chart (ESCape the context menu) to show possible selections

Change Selection

ANL

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GRD

Pre-Cal | Post-Cal

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Saturation Datagrids

Simulated Meter LCD Direct View | Source | Direct Display Control

Pre-Cal Saturation Sweeps Data

	0	100
RGB Triplet	16, 16, 16	235, 235, 235
Target x:CIE31	0.3127	0.3127
x: CIE31	0.3127	0.3127
Target y:CIE31	0.3290	0.3290
y: CIE31	0.3310	0.3310
Target Y	0.0288	23.7957
Y	0.0288	23.7957
Gamma Point: Flat	2.4000	2.4000
ΔE 2000	0.0480	1.6433
dE2000 LuminanceCompensated	0.0480	1.6433
ΔE 1994 L*:±	0.0000	0.0000
ΔE 1994 Sat:±	0.0360	1.2772
ΔE 1994 Hue:±	0.0000	0.0000
Signed dE94 L LuminanceCompensated	0.0000	0.0000
Signed dE94 C LuminanceCompensated	0.0360	1.2772
Signed dE94 H LuminanceCompensated	0.0000	0.0000

Post-Cal Saturation Sweeps Data

	25%	50%	75%	100%
RGB Triplet	180, 123, 123	180, 90, 90	180, 64, 64	180, 16, 16
Target x:CIE31	0.3931	0.4722	0.5472	0.6400
x: CIE31	0.3933	0.4773	0.5471	0.6364
Target y:CIE31	0.3293	0.3295	0.3297	0.3300
y: CIE31	0.3293	0.3295	0.3277	0.3320
Target Y	6.6677	4.5492	3.4999	2.7265
Y	6.3115	4.2128	3.3234	2.6733
Gamma Point: Flat	5.7746	7.7219	8.8643	9.9129
ΔE 2000	1.2420	1.6836	1.0960	0.5269
dE2000 LuminanceCompensated	0.0274	0.4701	0.4553	0.3106
ΔE 1994 L*:±	-1.3675	-1.6781	-1.0401	-0.3666
ΔE 1994 Sat:±	-0.4454	0.2082	-0.8125	-1.8766
ΔE 1994 Hue:±	0.0081	0.2135	-0.7905	0.2600
Signed dE94 L LuminanceCompensated	0.0000	0.0000	0.0000	0.0000
Signed dE94 C LuminanceCompensated	0.0582	1.3891	0.2494	-1.3230
Signed dE94 H LuminanceCompensated	0.0081	0.2108	-0.7837	0.2591

ANL

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Pre-Cal

Click Change Selection then right-click on either datagrid chart (ESCape the context menu) to show possible selections

Post-Cal

0 | 100 | Change Selection | 25% | 50% | 75% | 100%

Pre-Cal | Post-Cal

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Color Check Datagrids

Simulated Meter LCD Direct View | Source | Direct Display Control

Pre-Cal Color Checker Data

Pre-Cal

	White	Gray 80	Gray 65	Gray 50	Gray 35	Dark Skin	Light Skin	Blue Sky	Foliage	Blue Flower	Bluish Green	Orange	Purplish Blue	Moderate Red	Purple	Yellow Gre
RGB Triplet	235, 235, 235	213, 213, 213	196, 196, 196	176, 176, 176	152, 152, 152	115, 86, 73	182, 145, 128	97, 121, 150	93, 108, 73	128, 126, 167	101, 178, 161	202, 119, 51	80, 95, 156	182, 88, 99	95, 69, 108	152, 176,
Target x:CIE31	0.3127	0.3127	0.3127	0.3127	0.3127	0.4154	0.3845	0.2442	0.3430	0.2646	0.2593	0.5260	0.2083	0.4790	0.2855	0.3781
x: CIE31	0.3147	0.3107	0.3107	0.3107	0.3127	0.4003	0.3793	0.2475	0.3398	0.2661	0.2618	0.5132	0.2166	0.4653	0.2916	0.3756
Target y:CIE31	0.3290	0.3290	0.3290	0.3290	0.3290	0.3662	0.3580	0.2593	0.4398	0.2460	0.3624	0.4054	0.1782	0.3124	0.2084	0.5025
y: CIE31	0.3310	0.3270	0.3290	0.3310	0.3270	0.3640	0.3582	0.2654	0.4277	0.2520	0.3622	0.4073	0.1912	0.3131	0.2213	0.4935
Target Y	23.7957	18.4566	14.8623	11.2027	7.5845	1.9224	7.7240	3.9087	2.6026	4.9756	9.4147	6.2242	2.3239	3.9485	1.2173	9.6869
Y	23.7957	18.6114	14.8148	11.5508	7.8463	2.3188	8.1364	4.3504	2.9670	5.3131	9.9731	6.6093	2.7271	4.2426	1.5667	10.0495
Gamma Point: Flat	2.4000	2.3211	2.4163	2.3025	2.3288	2.9327	3.8731	3.4591	2.4005	4.0327	2.8845	7.8434	4.8416	6.2232	3.1368	2.7461
ΔE 2000	1.1255	1.0511	1.3664	2.4368	1.3746	2.9806	1.5801	2.5308	2.3365	1.9241	1.3151	1.7720	2.8005	1.7830	2.9716	1.0977
dE2000 LuminanceCompensated	1.1255	1.0347	1.3645	2.3405	1.1492	1.9550	1.2271	1.3117	1.3216	1.4523	0.5165	1.4246	1.9270	1.2562	1.8009	0.9362
ΔE 1994 L*:±	0.0000	0.2971	-0.1058	0.9252	0.9014	3.2342	1.3942	2.3080	2.4771	1.5226	1.6513	1.4995	2.9260	1.5446	3.7789	1.0596
ΔE 1994 Sat:±	1.1535	1.0578	0.9673	1.6643	0.8822	-1.8882	-1.2393	-1.0471	-1.6591	-1.9337	-0.4770	-3.3464	-3.0301	-2.6492	-1.5459	-2.7978
ΔE 1994 Hue:±	0.0000	0.0000	0.0000	0.0000	0.0000	0.5966	0.8655	-0.9835	0.2445	-0.9542	-0.3698	1.3073	-0.7864	-0.6475	0.4549	0.2657
Signed dE94 L LuminanceCompensated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Post-Cal Color Checker Data

Post-Cal

	White	Gray 80	Gray 65	Gray 50	Gray 35	Dark Skin	Light Skin	Blue Sky	Foliage	Blue Flower	Bluish Green	Orange	Purplish Blue	Moderate Red	Purple	Yellow Gre
RGB Triplet	235, 235, 235	213, 213, 213	196, 196, 196	176, 176, 176	152, 152, 152	115, 86, 73	182, 145, 128	97, 121, 150	93, 108, 73	128, 126, 167	101, 178, 161	202, 119, 51	80, 95, 156	182, 88, 99	95, 69, 108	152, 176,
Target x:CIE31	0.3127	0.3127	0.3127	0.3127	0.3127	0.4154	0.3845	0.2442	0.3430	0.2646	0.2593	0.5260	0.2083	0.4790	0.2855	0.3781
x: CIE31	0.3107	0.3127	0.3127	0.3147	0.3107	0.4023	0.3793	0.2515	0.3398	0.2681	0.2598	0.5112	0.2166	0.4653	0.2896	0.3736
Target y:CIE31	0.3290	0.3290	0.3290	0.3290	0.3290	0.3662	0.3580	0.2593	0.4398	0.2460	0.3624	0.4054	0.1782	0.3124	0.2084	0.5025
y: CIE31	0.3270	0.3270	0.3290	0.3290	0.3290	0.3620	0.3582	0.2634	0.4277	0.2540	0.3582	0.4053	0.1932	0.3151	0.2233	0.4935
Target Y	23.3198	18.0875	14.5651	10.9786	7.4328	1.8839	7.5695	3.8306	2.5506	4.8761	9.2264	6.0998	2.2775	3.8696	1.1929	9.4932
Y	23.3198	18.2391	15.1171	11.7818	8.1665	2.3188	8.1364	4.2634	3.0276	5.3131	9.9731	6.6093	2.6726	4.3291	1.5980	10.2505
Gamma Point: Flat	2.4000	2.3211	2.2103	2.1751	2.2024	2.9073	3.8001	3.4591	2.3539	3.9784	2.8175	7.7197	4.8416	6.0773	3.0907	2.6186
ΔE 2000	1.1208	1.5308	0.8236	2.0116	2.3782	3.0846	1.9047	2.6700	2.9821	2.3124	1.8598	2.0748	3.0811	2.5445	3.5041	1.8658
dE2000 LuminanceCompensated	1.1208	1.5196	0.0049	1.2649	1.1324	1.5282	1.2295	1.5580	1.3289	1.6120	0.9046	1.4869	2.4278	1.3617	2.2442	1.1112
ΔE 1994 L*:±	0.0000	0.2971	1.2372	2.1490	2.5260	3.5949	1.9423	2.3080	3.2629	1.9981	2.2379	2.0109	2.9260	2.4299	4.4077	2.2279
ΔE 1994 Sat:±	1.1481	1.1765	0.0039	0.8962	0.7985	-1.3346	-1.0939	-0.9598	-1.3168	-2.4957	-0.7196	-4.0117	-3.9221	-2.5035	-2.2132	-2.1205
ΔE 1994 Hue:±	0.0000	0.0000	0.0000	0.0000	0.0000	-0.1798	0.8684	1.2989	0.2462	-0.6564	0.9515	0.5087	-1.4305	0.0727	-0.1577	1.0536
Signed dE94 L LuminanceCompensated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Click Change Selection then right-click on either datagrid chart (ESCape the context menu) to show possible selections

Change Selection

ANL | Back | Next | PreCal | PostCal | Prepare | PreCal Read | Calibrate | C Chk | PostCal Read | Datagrid | Gray | Satur | Lumi | C Chk | Final Check | Notes | GRD

Pre-Cal | Post-Cal

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