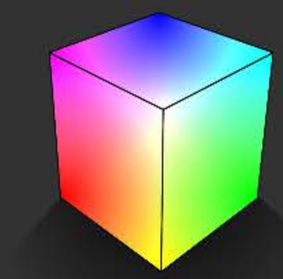
HT Enthusiast Extended Workflow v10.1.0



Featuring

- Home layout displays the full workflow structure
- Integrated session and hardware setup layout
- Single layout takes all desired Pre- or Post-calibration readings
- Expanded Grayscale calibration and pre/post-cal chart 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 layout
- 21 / 23-point Grayscale friendly

Also featuring navigation for the mouse-lazy

- Navigation bar shows where you are & 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!

HT Enthusiast Extended Workflow

CALIBRATION VIEWS

- Grayscale - has both full-point and two-point layouts
- Gamut Saturation Sweeps - also used for basic CMS Gamut calibration
- Gamut Luminance
- Color Checker
- 3D Color Cube LUT for supported hardware

WORKFLOW OVERVIEW

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

The workflow is divided into four sections or Zones. The corresponding zone symbol is shown in buttons navigating across zones except the Home button.

1) Introduction - general information about the workflow features

2) ▼ Preparation Zone - enter session setup information, take current readings for reference, plan the dynamic aspects of the session (contrast, brightness, etc.)

3) ◀ Calibration Zone - calibration layouts with matching datagrids (except 3D Color Cube) and post-calibration readings for all views

4) ▲ Analysis Zone - has detailed charts for all views in the pre- and post-calibration states and a final check layout for fine-tuning with a session dE 2000 summary.

ANALYSIS CHARTS

There are pre-calibration and post-calibration layouts for each calibration view. You can toggle between them by clicking the "↑PreCal" or "↑PstCal" button in the layouts. They super-impose when the layout switches so just keep clicking to go back and forth.

The ↑ buttons that come up in the nav bar perform similar toggling duties.

All views except Grayscale have detail datagrid layouts (the Grayscale datagrid is part of its pre/post layouts). You can acces those with the "↑Data" buttons with a similar toggle arrangement as the "↑PstCal" button. Datagrid layouts contain both pre- and post-calibration grids.

Unlike the other color views, the Color Checker pre- and post-calibration detail charts do not have CIE charts. Instead there's a combined layout with both big Color Checker CIE charts which you can acces through their "↑CIE Charts" buttons.

KEY LAYOUTS

HOME (Preparation) - has a layout map for getting the lay of the land and a fully loaded navigation bar for moving randomly around the layouts.

SESSION SETUP (Preparation) - Integrates calibration configuration and hardware setup.

PRE-CALIBRATION READINGS (Preparation) Navbar label "PreRd"
POST-CALIBRATION READINGS (Calibration) Navbar label "PstRd"- these practically identical 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 have comprehensive navigation buttons to calibration and detail layouts. All charts have return buttons to these as well. The toolbar has toggle buttons between these layouts, labeled Pre and Pst.

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Home

Simulated Meter LCD Direct View (LED Backlight) | Source | Direct Display Control

HOME

Workflow Layout Structure

→ ▼ Prepare ←

↓ ◀ Calibrate ↑

← ▲ Analyze →

CalMAN 5

▼ Preparation

▼ Session Setup → Screen Uniformity

▼ Pre-Calibration Readings

▼ Dynamic Range Analysis

◀ Calibration

Datagrids ← ◀ Full Grayscale Calibration → 2 Point

Datagrids ← ◀ Saturation Sweeps Calibration — For basic CMS Gamut calibration use Saturation Sweep set to 100% only

Datagrids ← ◀ Gamut Luminance Calibration

Datagrids ← ◀ Color Checker Calibration

◀ 3D Color Cube LUT Calibration

◀ Post-Calibration Readings

▲ Analysis

Gray datagrid in Detail ▲ Grayscale Detail Post-Cal → Detail Pre-Cal

Datagrids ← ▲ Saturation Sweep Detail Post-Cal → Detail Pre-Cal

Datagrids ← ▲ Gamut Luminance Detail Post-Cal → Detail Pre-Cal

Datagrids ← CIE Charts ← ▲ Color Check Detail Post-Cal → Detail Pre-Cal

▶ Final Check : Fine Tune the Dynamic Range

Will target Pre or Post based on current Analysis layout except 3d Cb which points to calibration layout

Workflow Info

PRP Home

Back | Next

Intro

*Home

▼ Prep: ScrUn, Setup, PreRd, Dyn R

◀ Calibr: Gray, Satur, Lumi, C Chk, 3d Cb

PstRd

▲ Anlysis: Gray, Satur, Lumi, C Chk, 3d Cb

Pre/Post ↑

Final

	Datagrid	Other
Gray	Data	2 Pt
Satur	Data	
Lumi	Data	
C Chk	Data	
3d Cb	Data	

	Special	Datagrid	Pre-Cal
Gray			PreCal
Satur		Data	PreCal
Lumi		Data	PreCal
C Chk	CC CIE	Data	PreCal
3d Cb			

Back | Next

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Session Setup | Help

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Night

Home

(A) Session Options

Session Info | More Options

Display • PRO-70X5FD

Setup Notes

Radiance source / display @ com2
Elite display IP 192.168.1.45

Calibration Description

Try for better contrast and pop

Target Black	Target White	Target Gamma
0	100	2.2

(C) Calibration Plan

For Navigation Bar Next / Back

- Plan calibrations
  - 2-Pt Grayscale
  - Full Grayscale
  - Saturation Sweeps
  - Gamut Luminance
  - Color Checker
  - 3D Color Cube LUT

Gamut Coordinates: D65, HD Rec.709

Gamma Formula: Power

Input Level: Video (16-235)

Delta E Formula: d E2000

Stimulus Unit: percent

(D) Hardware Configuration

① Meter — Find → | Configure

CalMAN Simulated
Profile : None

Units fL | Mode LCD Direct View (LED Backlight)

② Source — Find → | Configure

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

Pattern Size Full 100%

③ Display / Processor — DCC | Find → | Configure

Sharp - 2011 Elite (RS-232, Ethernet)
Sharp Elite SOCKET 192.168.1.45:10002

Display Slot ISF Night | Data Points 11

(B) Settings

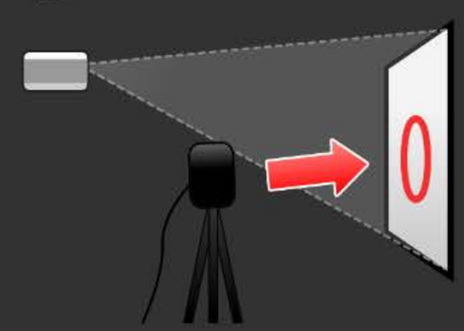
AV Mode: ISF Night

					Low	High
Color Temp	Low	Contrast		Red		
Sharpness		Brightness		Green		
Color		Backlight		Blue		
Tint		TV Gamma				

(E) Meter Setup

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

① Projector

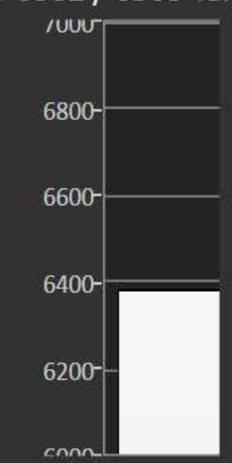


② Flat Panel

③ Readings

Y Max / Min fL
24.27 / 0.0293582

CCT 6382 / 6503 Target



→ Screen Uniformity

PRP Setup

Back | Next | ↑ScrUni | Home | ▼ Prep | ↑ScrUni | PreRd | Dyn R | ◀ Calibr | Gray | Satur | Lumi | C Chk | 3d Cb | PstRd | ▲Anlysis | Final

0 | 100

Back | Next

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Session Setup | Help

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Night

Home

(A) Session Options

Session Info | More Options

Setup Notes

Display • PRO-70X5FD

Radiance source / display @ com2
Elite display IP 192.168.1.45

Calibration Description

Try for better contrast and pop

Target Black: 0
Target White: 100
Target Gamma: 2.2

(C) Calibration Plan

For Navigation Bar Next / Back

- Plan calibrations
  - 2-Pt Grayscale
  - Full Grayscale
  - Saturation Sweeps
  - Gamut Luminance
  - Color Checker (Click to schedule)
  - 3D Color Cube LUT

Gamut Coordinates: D65, HD Rec.709

Gamma Formula: Power

Input Level: Video (16-235)

Delta E Formula: d E2000

Stimulus Unit: percent

(B) Settings

AV Mode: ISF Night

					Low	High
Color Temp	Low	Contrast		Red		
Sharpness		Brightness		Green		
Color		Backlight		Blue		
Tint		TV Gamma				

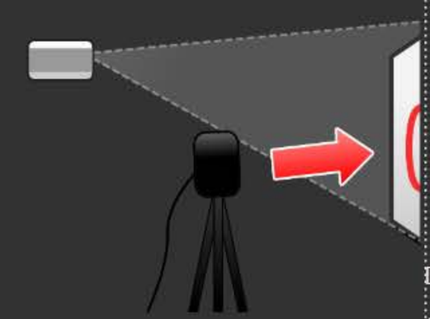
(D) Hardware Configuration

1. Meter — Find → | Configure
2. Source — Find → | Configure
3. Display / Processor — Find → | Configure
   - DCC

(E) 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	2
Contrast	80
Color	0
Tint	0
Sharpness	2
Color Temperature	Low
Gamma	0
Backlight	35
Gamut Range	Standard
Motion ENhancement	Off
Precision Color Plus	
Active Contrast	
Film Mode	Off
Digital Noise Reduction	Off

PRP Setup

Back | Next | ScrUni | Home | Prep | ScrUni | PreRd | Dyn R | Calibr | Gray | Satur | Lumi | C Chk | 3d Cb | PstRd | Anlysis | Final

0 | 100

Back | Next

Setting Up the Session

(A) Enter the session description & configuration

- Click [More Options] to open the options panel
- Click [Session Info] to enter additional information

(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) If convenient define a calibration - the planned layouts will be indicated and followed by the Next / Back buttons of the Navigation Bar

(D) Find and configure the appropriate (1) meter, (2) source and (3) display devices - more info at right →

(E) 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 at right →

(D) 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.
   c) Select the desired meter luminance measurement unit.
2. Then connect your reference pattern source generator.
   a) Click the source *Find* button, and select your Source.
   b) Select the pattern window size and resolution.
3. Then, connect your display/processor.
   a) Click the display *Find* button.
4. Click the *Configure* buttons for more options.

(E) Meter Positioning

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

2a. For projectors position the meter facing the projection screen, far enough away from the screen to avoid reading the meter's own shadow (example to the right). Continue to take readings.

2b. 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*.

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

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Screen Uniformity

Simulated Meter
LCD Direct View (LED Backlight)

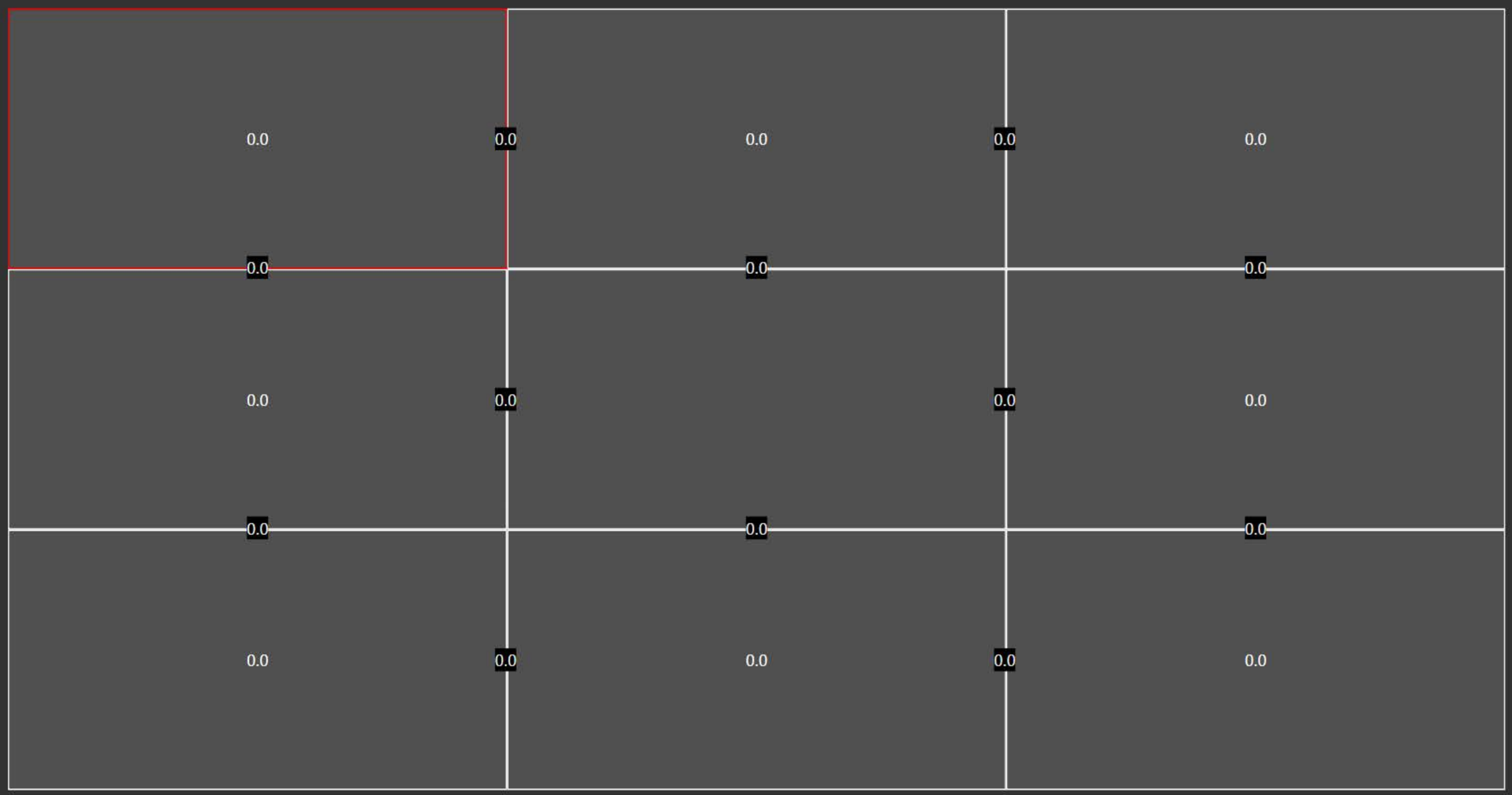
Source

Sharp Elite
ISF Night

Home

Screen Uniformity

PRP
ScrUn



→SetUp

Home

SetUp

Back

30

100

Home

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Pre-Cal Readings

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Night

Home

Pre-Calibration Readings

Gamma Breakout Tot 2.23 Y Min 0 Y Max 24.27

2.4 2.2 2

10 20 30 40 50 60 70 80 90 100

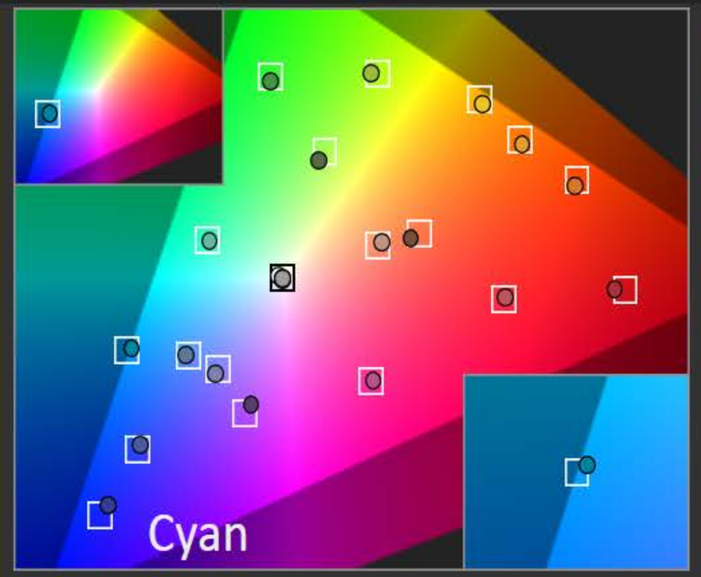
1 Grayscale

ΔE 2000 1.1 Avg 0.84 Max 2.24

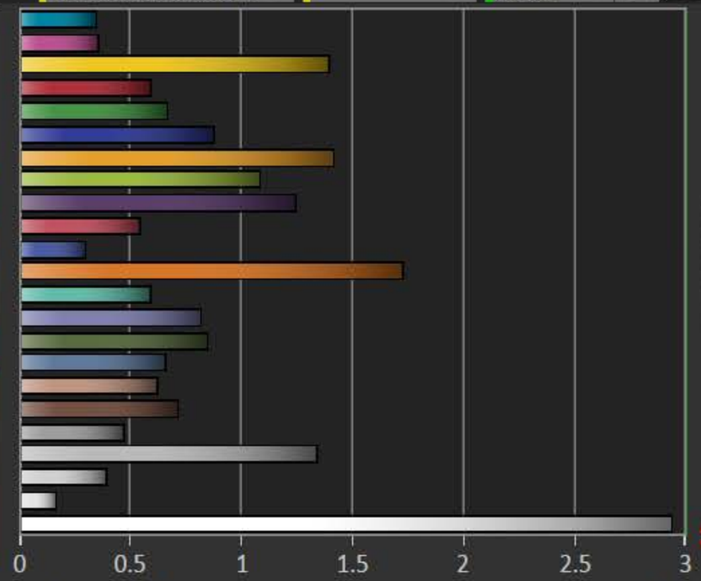
80

3 2 1 0

10 20 30 40 50 60 70 80 90 100



4 Color Checker



0 0.5 1 1.5 2 2.5 3

ΔE 2000 0.34 Avg 0.87 Max 2.94

PRP

PreC Read

Back

Next

PstRd

Home

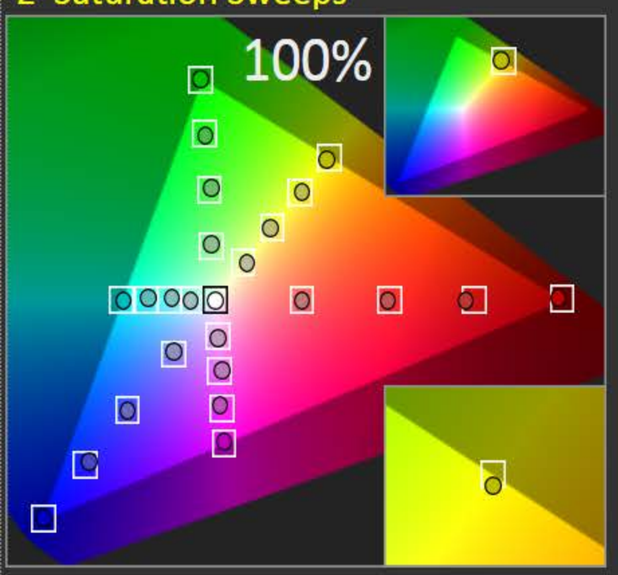
Prep

Setup

PstRd

Dyn R

2 Saturation Sweeps

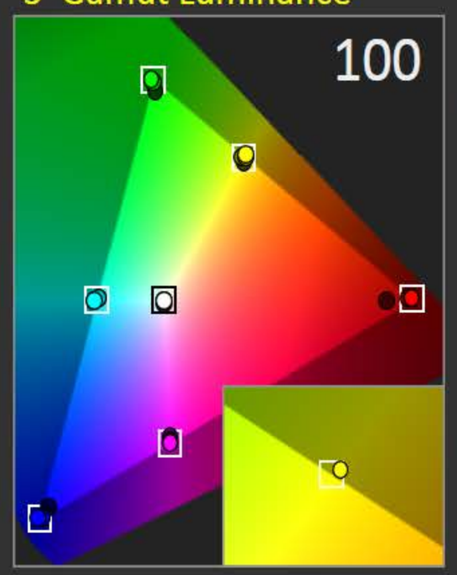


ΔE 2000 1.26 Max 1.4 Avg 0.97

3 2.5 2 1.5 1 0.5 0

100 25% 50% 75% 100%

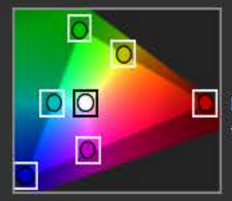
3 Gamut Luminance



ΔE 2000 0.65 Max 1.44 Avg 0.67

3 2.5 2 1.5 1 0.5 0

25 50 75 100



Populate Gamut for HT report

Calib

Gray

Satur

Lumi

C Chk

3d Cb

PstRd

Anlysis

Gray

Satur

Lumi

C Chk

3d Cb

Final

1 Grayscale

10 Point 10% step 10-100%

2 Saturation

25% Sweeps

3 Luminance

4 Point 25% step 25-100%

4 Color Checker

• ISF Night •

Pre-Cal Readings

Contrast

Brightness

Backlight

TV Gamma

Color

Tint

Pre-cal notes

Pre-Calibration Notes

Pre-Cal

Display Slot

ISF Night

Use [···] below to read ALL series or select a series above

10 20 30 40 50 60 70 80 90 100

Pst Home

Back Next

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Dynamic Range

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Night

Home

Dynamic Range

OVERALL RANGE

Adjust the Backlight (for LED) control 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.

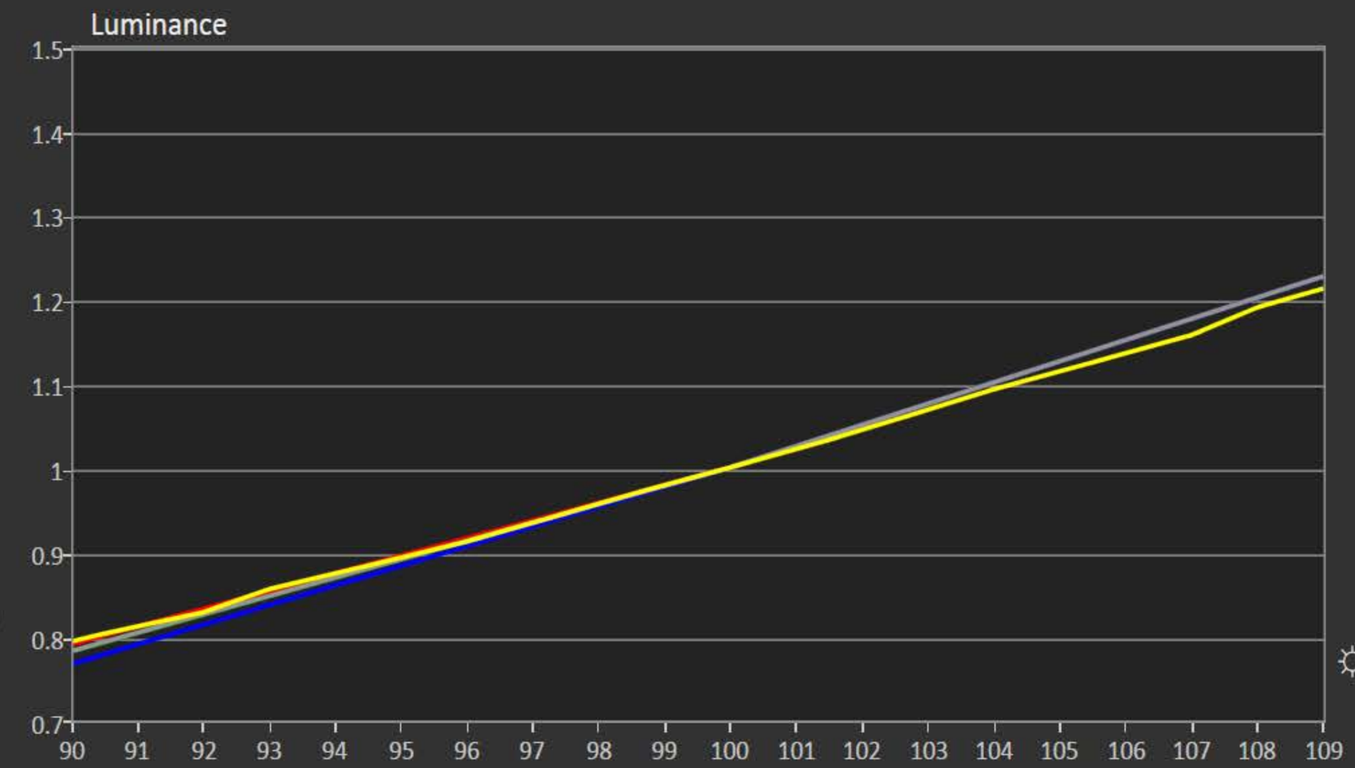
② Check the gamma level across the full grayscale based on the current settings, and adjust the display's gamma control to get a good match, tweaking with the Brightness for Black level & Contrast for White.

12 Point 10% step 0-109% ②

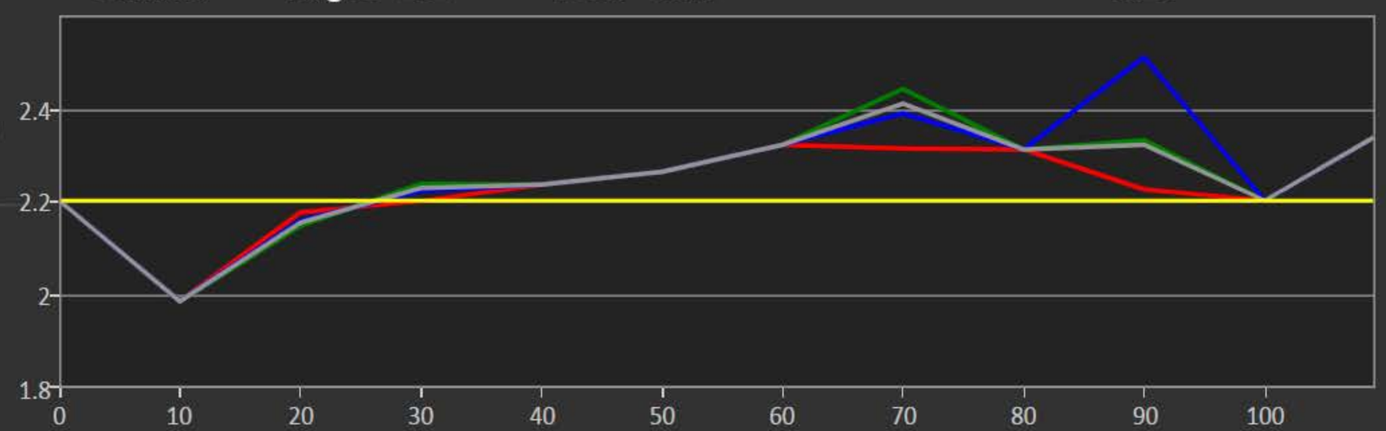
Calibration Notes

Better contrast

Contrast
Brightness
Backlight
TV Gamma



Luminance in fL		White	24.27	40	3.16
Gamma	Target 2.2	Total	2.26		2.24



DIsplay Slot ISF Night

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

PRP
Dyn R
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Home
▼ Prep
Setup
PreRd
DynR
◀ Calibr
Gray
Satur
Lumi
C Chk
3d Cb
PstRd
▲ Anlysis
Final

0 10 20 30 40 50 60 70 80 90 100 109

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

2 Pt Grayscale

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Day

Home

2 Pt Grayscale Calibration

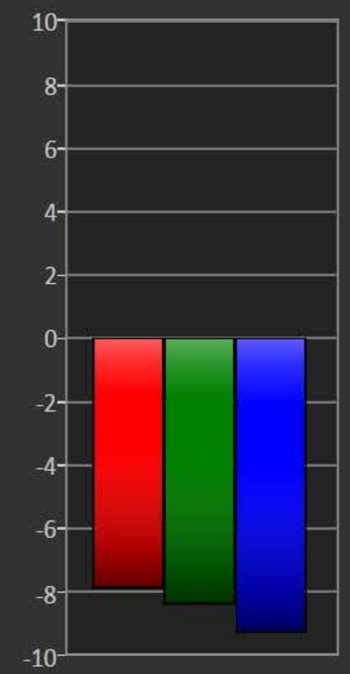
Grayscale Two Point Adjust

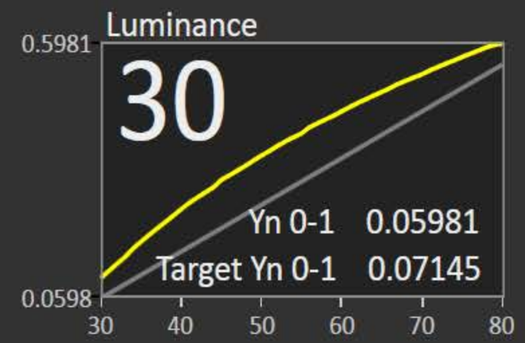
1. Reduce the Red, Green, and/or Blue (RGB) High controls to the lowest measured R, G, or B after the initial measurement of bright grayscale pattern. Continue doing this until you balance RGB to a deltaE of 3 or below (chart below).
2. Balance the RGB Low controls (if provided), while measuring a dark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

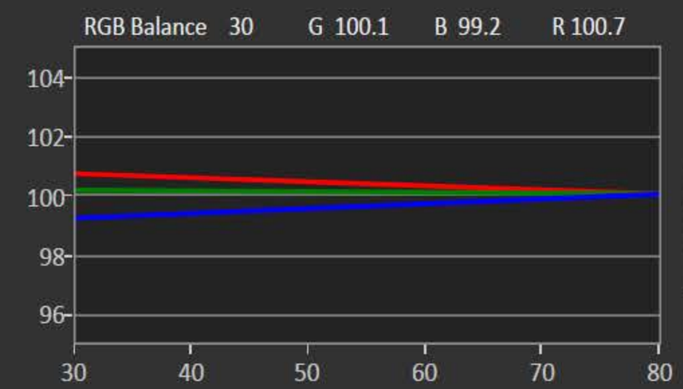
Selecting Points:

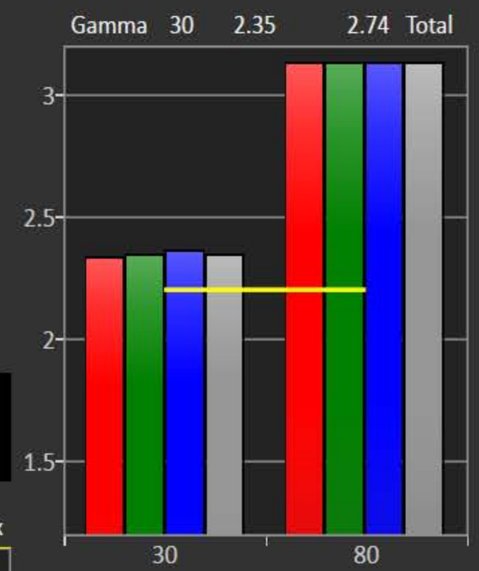
- ***30% and 80%:*** *Use these levels if you only have access to a two point grayscale adjustment*
- ***30% and 100%:*** *Use these levels if you will be completing a multipoint adjustment afterwards and do not have access to a Peak White pattern.*
- ***30% and Peak White:*** *Use these levels if your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

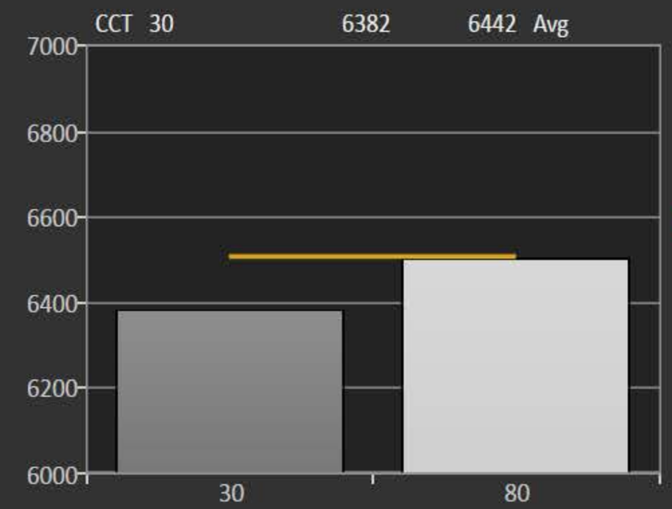
2 Point 30,80%

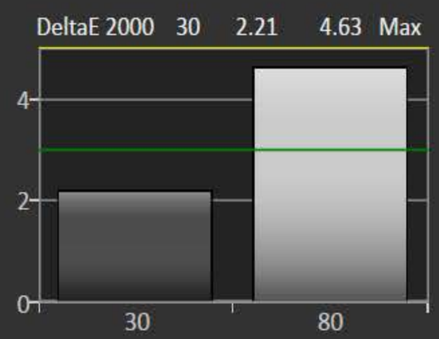












30

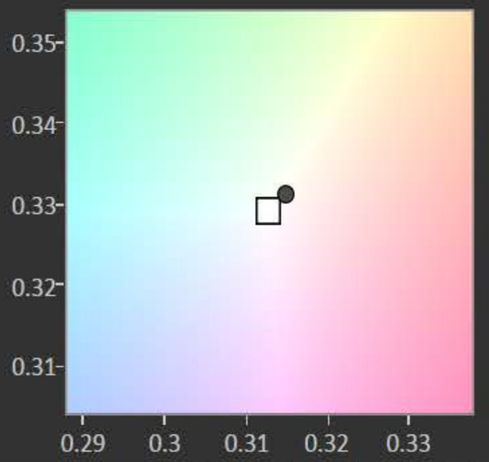
CC Temp	6382	6442	Avg
Gamma	2.35	2.74	Tot
dE 2000	2.21	3.42	Avg
		4.63	Max

White 29.19

	Y / Luminance fL	x	y
Target →	2.08545	0.3127	0.329
Meter →	1.74568	0.3147	0.331

Display Slot: ISF Day

Triplet: 82, 82, 82



Calibration Notes

CAL Gray

Back | Next | Full | Data | Home | Prep | Setup | PreRd | Dyn R | Calibr | Full | Data | Satur | Lumi | C Chk | 3d Cb | PstRd | Anlysis | Gray | Full | Data

30 | 80

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Full Grayscale

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Day

Home

Full Grayscale Calibration

DDC >>>

Luminance
Target Yn 0-1 0.07145
Read Yn 0-1 0.07192

RGB Balance Lvl 30 G 100.1 B 99.2 R 100.7

Gamma Lvl 30 2.19 2.25 Total

30

CCT Correlated Color Temperature Lvl 30 6382 6468 Avg

DeltaE 2000 Lvl 30 0.48 2.24 Max

DDC >>> Notes Comparator

RGB Balance | CCT tgt 6503 6382 | Gamma 2.19 | dE 0.48

Y in fL tgt = Target

30

Y tgt 1.73428 1.74568
x tgt 0.31271 0.3147
y tgt 0.32901 0.33102
82, 82, 82 Triplet

CCT Avg 6468 / 6503 Target
Gamma Tot 2.25 / 2.2 Target
dE 2000 0.96 Avg / 2.24 Max
Contrast Ratio 827

24.27 White

30

Display Slot: ISF Day

Grayscale Points: 11 Point 10% step 0-100%

CAL Gray

Back Next 2Pnt Data Home Prep Setup PreRd Dyn R Calibr 2Pnt Data Satur Lumi C Chk 3d Cb PstRd Anlysis Gray 2Pnt Data

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Full Grayscale

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Day

Home

Full Grayscale Calibration

DDC >>>

	Red	Green	Blue
0	54	30	23
10	54	30	23
20	53	39	20
30	45	39	21
40	60	51	28
50	40	37	19
60	50	43	23
70	46	39	20
80	47	39	21
90	49	39	20
100	51	41	21

Reset Grayscale

Luminance
Target Yn 0-1 0.07145
Read Yn 0-1 0.07192

Total 30

RGB Balance Lvl 30 G 100.1 B 99.2 R 100.7

CCT Correlated Color Temperature Lvl 30 6382 6468 Avg

DeltaE 2000 Lvl 30 0.48 2.24 Max

DDC >>> Notes Comparator

CCT Avg 6468 / 6503 Target
Gamma Tot 2.25 / 2.2 Target
dE 2000 0.96 Avg / 2.24 Max
Contrast Ratio 827

24.27 White 30

Display Slot: ISF Day

Grayscale Points: 11 Point 10% step 0-100%

RGB Balance | CCT tgt 6503 6382 | Gamma 2.19 tgt 2.2 | dE 0.48

Y in fL tgt = Target

30

Y tgt 1.73428 1.74568
x tgt 0.31271 0.3147
y tgt 0.32901 0.33102
82, 82, 82 Triplet

CAL Gray

Back Next 2Pnt Data Home Prep Setup PreRd Dyn R Calibr 2Pnt Data Satur Lumi C Chk 3d Cb PstRd Anlysis Gray 2Pnt Data

Back Next

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

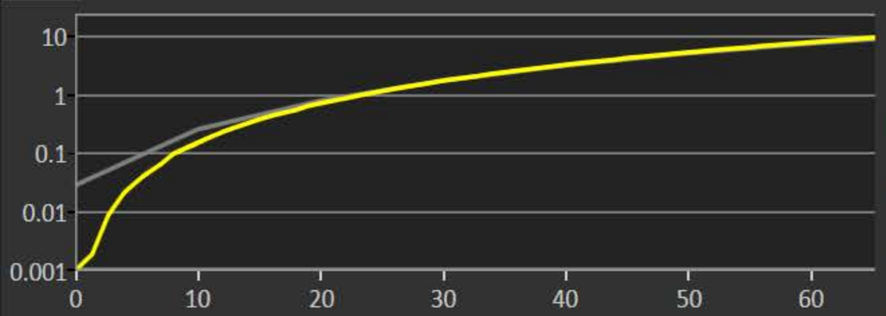
Full Grayscale

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Day

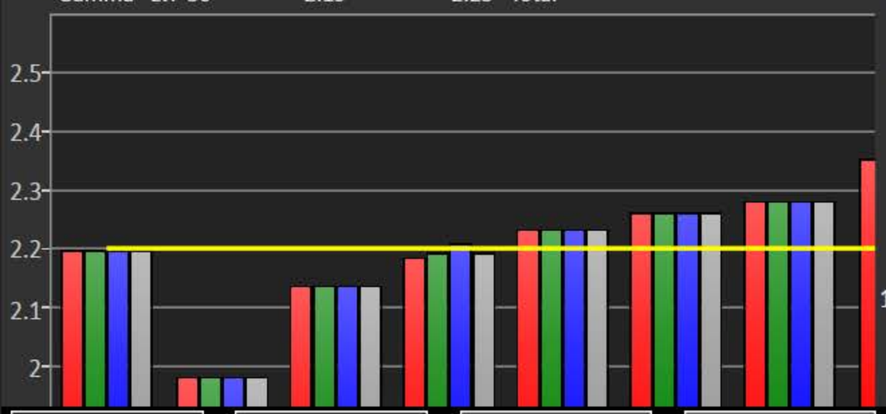
Home

Full Grayscale Calibration

DDC <<<



Gamma Lvl 30 2.19 2.25 Total



	Red	Green	Blue
0	54	30	23
10	54	30	23
20	53	39	20
30	45	39	21
40	60	51	28
50	40	37	19
60	50	43	23
70	46	39	20
80	47	39	21
90	49	39	20
100	51	41	21

Session Calibration Description

Calibration Notes

Post-Calibration Notes

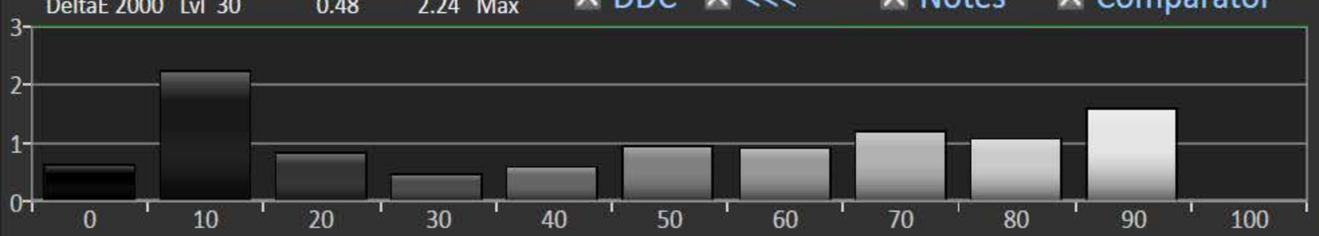
0 10 20 30 40 50 60 70 80 90 100

CAL Gray

Back Next 2Pnt Data Home Prep Setup PreRd Dyn R Calibr 2Pnt Data Satur Lumi C Chk 3d Cb PstRd Anlysis Gray 2Pnt Data

DeltaE 2000 Lvl 30 0.48 2.24 Max

DDC <<< Notes Comparator



CCT Avg 6468 / 6503 Target

Gamma Tot 2.25 / 2.2 Target

dE 2000 0.96 Avg / 2.24 Max

Contrast Ratio 827

24.27 White

30

Display Slot: ISF Day

Grayscale Points: 11 Point 10% step 0-100%

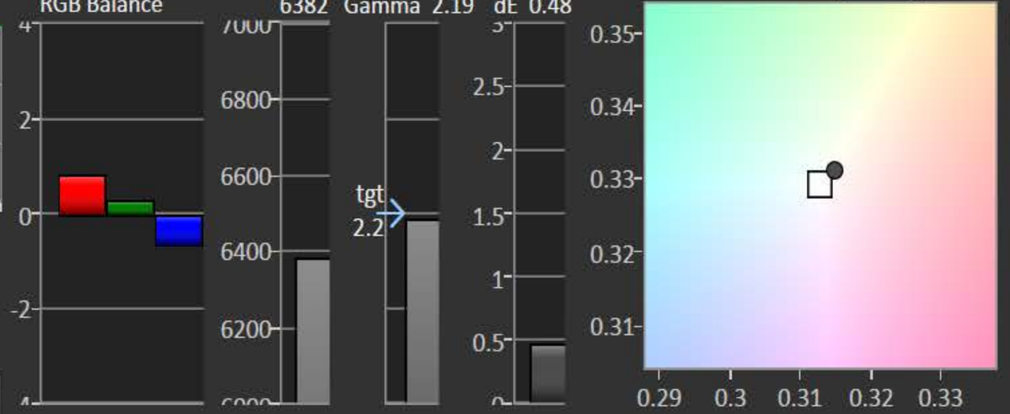
RGB Balance

CCT tgt 6503 6382

Gamma 2.19 tgt 2.2

dE 0.48

Y in fL tgt = Target



30

Y tgt 1.73428 1.74568

x tgt 0.31271 0.3147

y tgt 0.32901 0.33102

82, 82, 82 Triplet

0 10 20 30 40 50 60 70 80 90 100

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Datagrid

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Night

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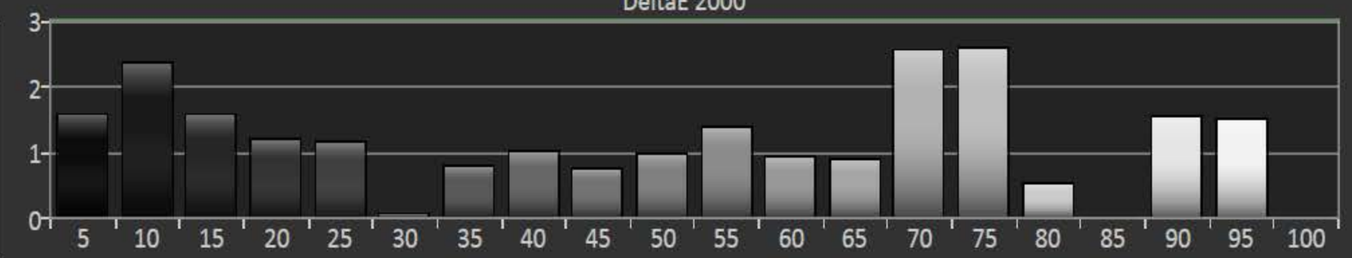
Full Grayscale Calibration Data

Calibration Notes

Better contrast

DeltaE 2000



	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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
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
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
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
X	0.3420	0.8258	1.5384	2.6043	3.7630	5.5733	7.5858	10.1580	13.2452	16.3119	19.6173	23.9812	29.3061	33.7239	39.4823
Y cd/m²	0.3575	0.8744	1.6186	2.7392	4.0089	5.8639	8.0326	10.6227	13.9314	17.1623	20.7729	25.2315	30.8242	35.0423	41.0258
Z	0.3871	0.9575	1.7625	2.9317	4.3389	6.3853	8.7957	11.7029	14.9101	18.6883	22.7462	27.4750	32.9898	38.3915	44.9469
Xn 0-1	0.0042	0.0101	0.0189	0.0319	0.0462	0.0684	0.0930	0.1246	0.1625	0.2001	0.2406	0.2941	0.3595	0.4136	0.4843
Yn 0-1	0.0044	0.0107	0.0199	0.0336	0.0492	0.0719	0.0985	0.1303	0.1709	0.2105	0.2548	0.3095	0.3781	0.4298	0.5032
Zn 0-1	0.0047	0.0117	0.0216	0.0360	0.0532	0.0783	0.1079	0.1435	0.1829	0.2292	0.2790	0.3370	0.4046	0.4709	0.5513
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
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
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
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
Measured Red Stimulus	0.0856	0.1259	0.1684	0.2149	0.2502	0.3023	0.3451	0.3982	0.4500	0.4925	0.5315	0.5868	0.6457	0.6921	0.7435
Measured Green Stimulus	0.0845	0.1276	0.1684	0.2138	0.2556	0.3023	0.3497	0.3951	0.4477	0.4925	0.5386	0.5868	0.6424	0.6777	0.7281
Measured Blue Stimulus	0.0845	0.1276	0.1684	0.2119	0.2534	0.3023	0.3497	0.3985	0.4439	0.4925	0.5386	0.5868	0.6369	0.6836	0.7344
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
Target X cd/m²	0.1075	0.4939	1.2051	2.2692	3.7075	5.5370	7.7725	10.4266	13.5107	17.0350	20.6290	25.0193	29.8754	35.2047	41.0143
Target Y cd/m²	0.1131	0.5196	1.2679	2.3875	3.9007	5.8256	8.1775	10.9699	14.2148	17.9228	21.7041	26.3232	31.4323	37.0393	43.1518
Target Z cd/m²	0.1231	0.5658	1.3807	2.5999	4.2477	6.3439	8.9051	11.9459	15.4794	19.5174	23.6350	28.6652	34.2288	40.3347	46.9909
Target Xn 0-1	0.0013	0.0061	0.0148	0.0278	0.0455	0.0679	0.0953	0.1279	0.1657	0.2089	0.2530	0.3069	0.3664	0.4318	0.5031

Full | 2Pnt | 2Pnt | Full | Anlysis | Full | 2Pnt | Home

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Saturation Sweeps

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Night

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Saturation Sweep Calibration

DeltaC Max 2.154 Avg 2.154

DeltaH Max 0.878 Avg 0.268

DeltaL Max 1.603 Avg 0.949

Gamut Luminance

DeltaE 2000 Max 1.41 Avg 0.89

Triplet 180, 123, 123 25%

Y tgt 6.68488 6.43775

x tgt 0.394 0.39525

y tgt 0.32925 0.32926

White 24.27

25%

Gam Lum -3.7

dE 2000 0.84

RGB Balance

DeltaL -0.94

DeltaH 0.03

DeltaC 0.4

Notes DDC

Display Slot ISF Night

Sweep Levels 25% Sweeps

← For basic CMS Gamut set to 100% Only

CAL Satur

Back Next Data Home Prep Setup PreRd Dyn R Calibr Gray Data Lumi C Chk 3d Cb PstRd Anlysis Satur Data

25% 50% 75% 100%

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CalMAN 5

Saturation Sweeps

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Night

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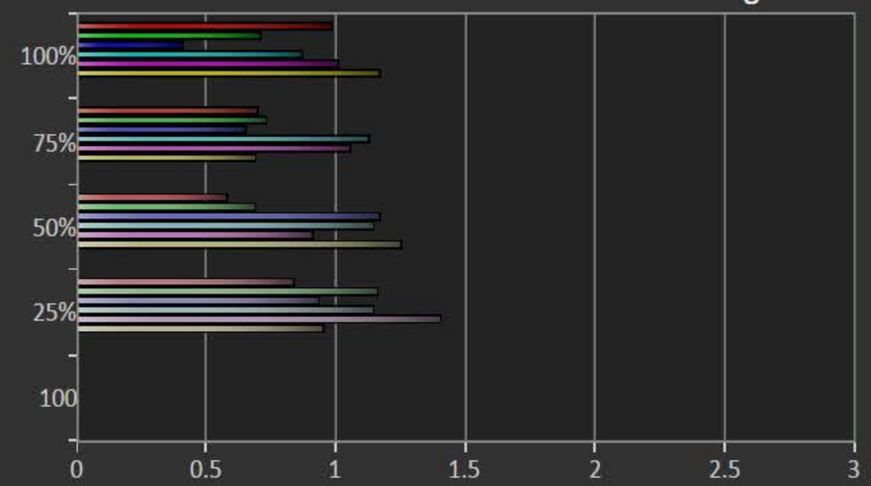
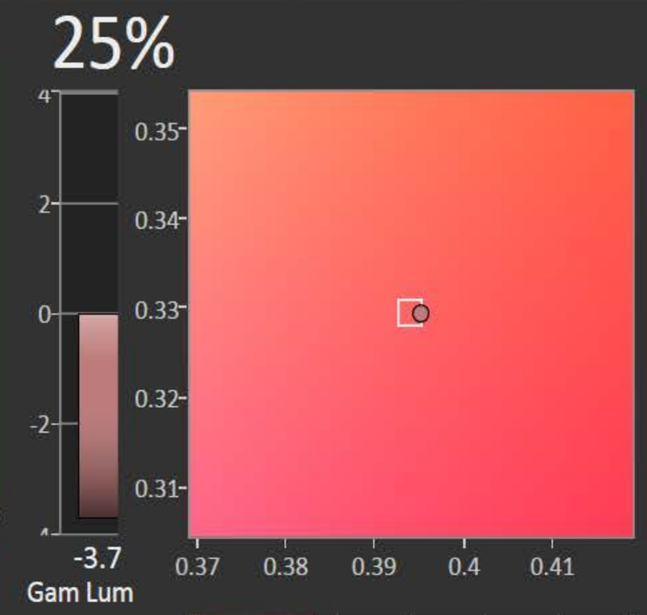
Saturation Sweep Calibration

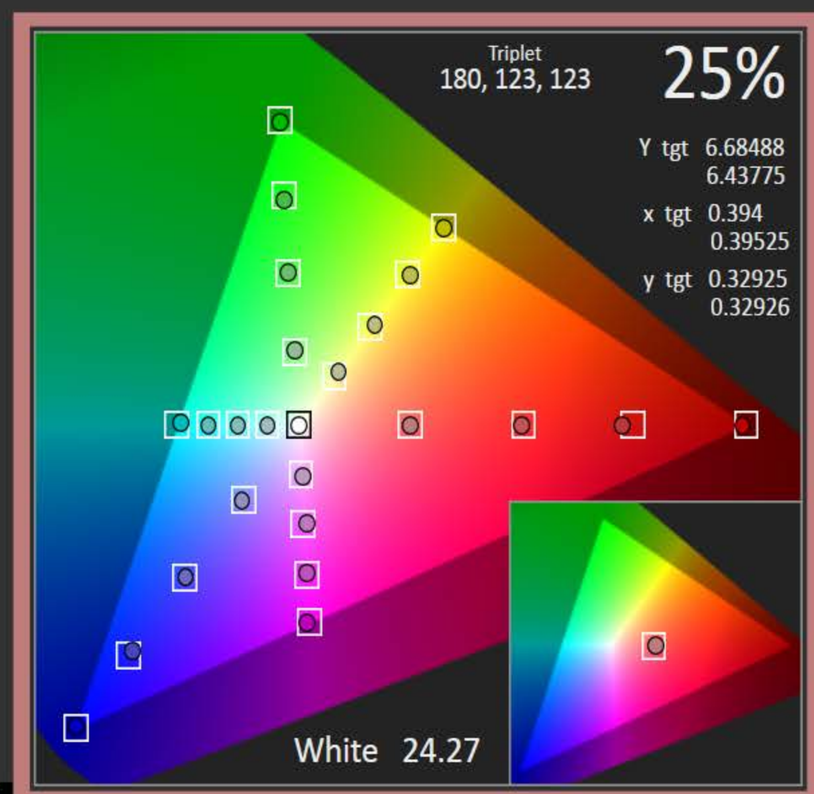
	Hue	Saturation	Luminance
Red	35	37	34
Green	28	50	22
Blue	43	37	36
Cyan	27	39	23
Magenta	34	39	33
Yellow	33	33	36

Reset CMS

DeltaE 2000 Max 1.41 Avg 0.89



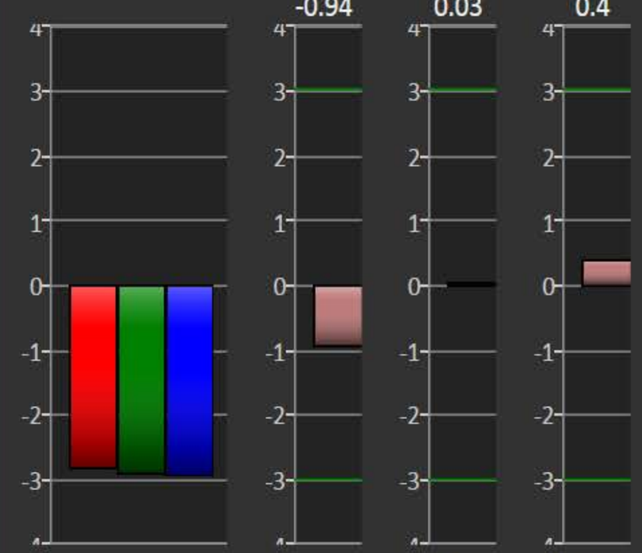




dE 2000
0.84

0 0.5 1 1.5 2 2.5 3

RGB Balance	DeltaL	DeltaH	DeltaC
	-0.94	0.03	0.4



Color Notes

Less saturation

Calibration Notes

Better contrast

Notes DDC

Display Slot ISF Night

Sweep Levels 25% Sweeps

← For basic CMS Gamut set to 100% Only

CAL
Satur

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25% 50% 75% 100%

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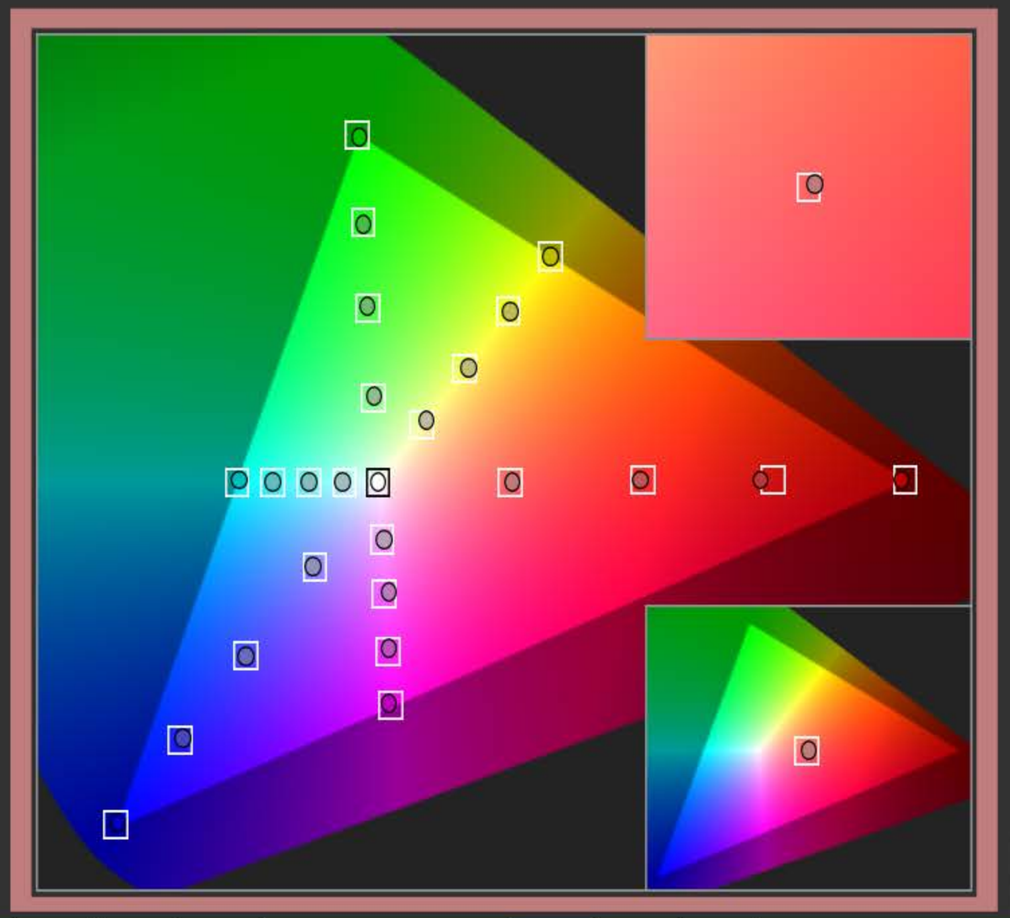
Saturation Sweep Calibration Data

Color Notes

Less saturation

Calibration Notes

Better contrast



25%

	25%	50%	75%	100%
RGB Triplet	180, 123, 123	180, 90, 90	180, 64, 64	180, 16, 16
RedIndex	180.00000	180.00000	180.00000	180.00000
GreenIndex	123.00000	90.00000	64.00000	16.00000
BlueIndex	123.00000	90.00000	64.00000	16.00000
X	26.47807	21.67141	19.34193	17.31783
Y cd/m²	22.05738	15.02344	11.61455	8.97979
Z	18.45448	8.89915	4.26830	0.91476
Xn 0-1	0.31840	0.26060	0.23258	0.20824
Yn 0-1	0.26524	0.18066	0.13966	0.10798
Zn 0-1	0.22191	0.10701	0.05133	0.01100
Stimulus Percent	0.74886	0.74886	0.74886	0.74886
RED Stim%:0-1	0.74886	0.74886	0.74886	0.74886
GRN Stim%:0-1	0.48858	0.33790	0.21918	0.00000
BLU Stim%:0-1	0.48858	0.33790	0.21918	0.00000
Measured Red Stimulus	0.73860	0.73860	0.73860	0.73198
Measured Green Stimulus	0.47918	0.33600	0.22808	0.04678
Measured Blue Stimulus	0.47917	0.33599	0.22807	0.04677
Stimulus	75.00000	75.00000	75.00000	75.00000
Target X cd/m²	27.40833	22.26490	19.73943	18.15275
Target Y cd/m²	22.90414	15.37752	11.68188	9.36001
Target Z cd/m²	19.25113	9.02592	4.00526	0.85091
Target Xn 0-1	0.32958	0.26773	0.23736	0.21828
Target Yn 0-1	0.27542	0.18491	0.14047	0.11255
Target Zn 0-1	0.23149	0.10854	0.04816	0.01023
TargetGamut:Nrml Y	0.52927	0.52927	0.52927	0.52927
TargetRED:Lin0-1	0.52927	0.52927	0.52927	0.52927
TargetGRN:Lin0-1	0.20686	0.09190	0.03546	0.00000

25% | 50% | 75% | 100%

Calib

Calib

Anlysis

Calib

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Gamut Luminance

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Night

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Gamut Luminance Calibration

DeltaC Max 9.017 Avg 1.278

DeltaH Max 1.85 Avg 0.32

DeltaE 2000 Max 1.49 Avg 0.67

DeltaL Max 1.511 Avg 0.653

Gamut Luminance

Triplet 16, 16, 235 100

Y tgt 1.75206 1.7792

x tgt 0.15 0.1505

y tgt 0.06 0.06082

White 24.27

100

1.55 Gam Lum

dE 2000 0.24

RGB Balance

DeltaL 0.25

DeltaH -0.22

DeltaC -1.37

CAL Lumi

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C Chk

3d Cb

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DDC

Display Slot ISF Night

Luminance Levels 4 Point 25% step 25-100%

25 50 75 100

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Color Checker

Simulated Meter LCD Direct View (LED Backlight) | Source | Direct Display Control

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Color Checker Calibration

Orange Yellow

DeltaE 2000 Max 1.58 Avg 0.68 | DeltaL Max 1.09 Avg 0.43 | DeltaH Max 1.77 Avg 0.44 | DeltaC Max 3.54 Avg 0.97

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, Black, Gray 35, Gray 50, Gray 65, Gray 80, White

0 0.5 1 1.5 2 2.5 3 | 4 -2 0 2 4 | 4 -2 0 2 4 | 4 -2 0 2 4

Orange Yellow

1.27 dE | -0.83 dL | 1.6 dH | -1.78 dC

dE 2000 1.27
dE Max 1.58
dE Avg 0.68

Orange Yellow

0.46 0.45 0.44 0.43 0.42
0.45 0.46 0.47 0.48 0.49

Y tgt 10.20857
9.91937

x tgt 0.47494
0.4753

y tgt 0.4427
0.43868

Triplet 213, 154, 55

White 23.8

Comparator
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Display Slot

-6 -4 -2 0 2 4 6

-2.83 Lum

-4 -2 0 2 4

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Data

White | Gray 80 | Gray 65 | Gray 50 | Gray 35 | Black | 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

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CalMAN 5

Color Checker

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Day

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Color Checker Calibration

Orange Yellow

DeltaE 2000 Max 1.58 Avg 0.82 | Max 1.45 DeltaL Avg 0.57

8J, 8I, 8H, 8G, 8F, 8E, 8D, 7J, 7I, 7H, 7G, 7F, 7E, 5D, 2K, 2F, 2E, 100% Yellow, 100% Magenta, 100% Cyan, 100% Blue, 100% Green, 100% Red, Cyan, Magenta, Yellow, Purple, Moderate Red, Purplish Blue, Orange, Bluish Green, Blue Flower, Foliage, Blue Sky, Light Skin

	Hue	Saturation	Luminance
Red	29	37	38
Green	34	48	26
Blue	41	32	39
Cyan	26	38	20
Magenta	34	39	24
Yellow	27	32	37

Reset CMS

dE 2000 1.27
dE Max 1.58
dE Avg 0.82

Orange Yellow

CAL
C Chk

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Calibr
Gray

White | Gray 80 | Gray 65 | Gray 50 | Gray 35 | Black | 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 | 10

Purple, Moderate Red, Purplish Blue, Orange, Bluish Green, Blue Flower, Foliage, Blue Sky, Light Skin

y tgt 0.4427
0.43868

Triplet 213, 154, 55

White 23.8

0.44, 0.43, 0.42 | 0.45, 0.46, 0.47, 0.48, 0.49

PstRd
Anlysis
C Chk

Calibration Notes

Color Notes

Comparator
Notes
DDC Grey

Display Slot
ISF Day

-2.83 Lum

White | Gray 80 | Gray 65 | Gray 50 | Gray 35 | Black | 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 | 2E

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Color Checker

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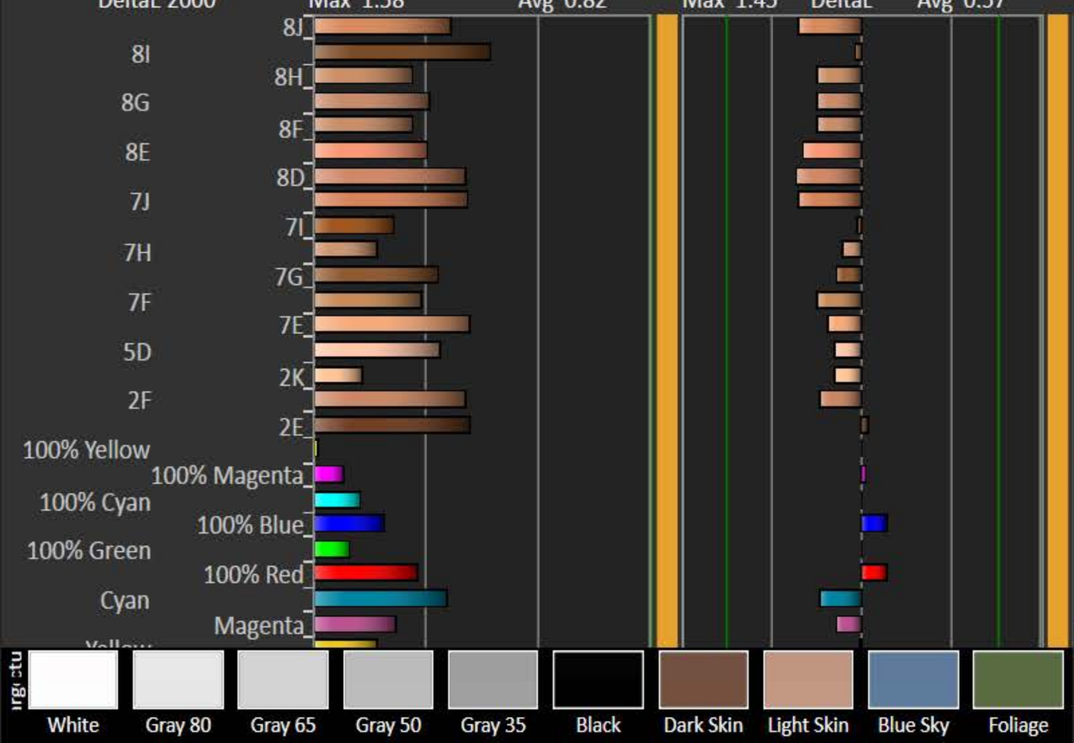
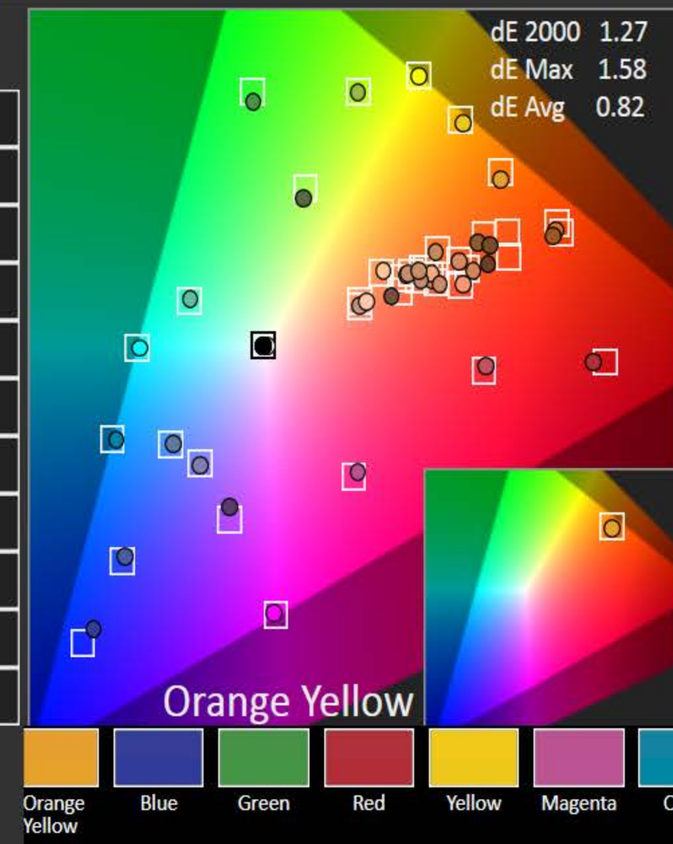
Color Checker Calibration

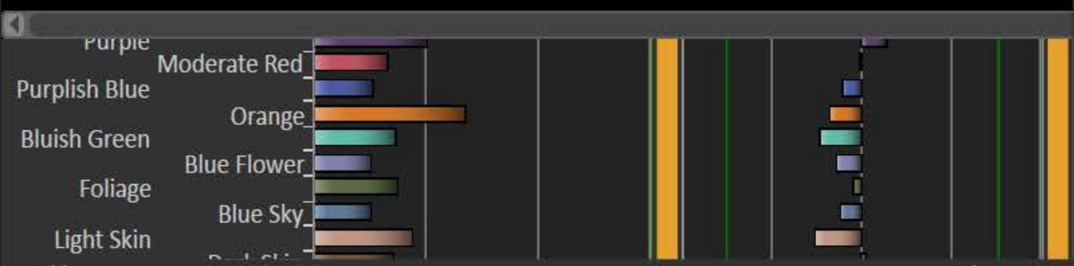
Orange Yellow

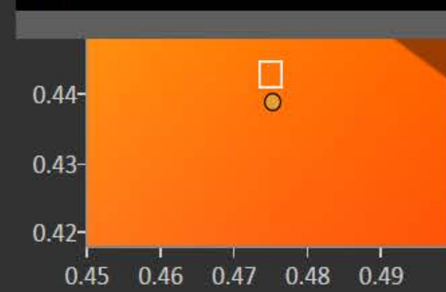
DeltaE 2000 Max 1.58 Avg 0.82 | Max 1.45 DeltaL Avg 0.57



	Red	Green	Blue
0	54	30	23
10	54	30	23
20	53	39	20
30	45	39	21
40	60	51	28
50	40	37	19
60	50	43	23
70	46	39	20
80	47	39	21
90	49	39	20
100	51	41	21







y tgt 0.4427
0.43868

Triplet 213, 154, 55

White 23.8

Calibration Notes

Color Notes

Reset Grayscale

Comparator
Notes
DDC Grey

Display Slot
ISF Day

White | Gray 80 | Gray 65 | Gray 50 | Gray 35 | Black | 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 | 2E

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CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Datagrid

Simulated Meter
LCD Direct View (LED Backlight)

Source

Direct Display Control

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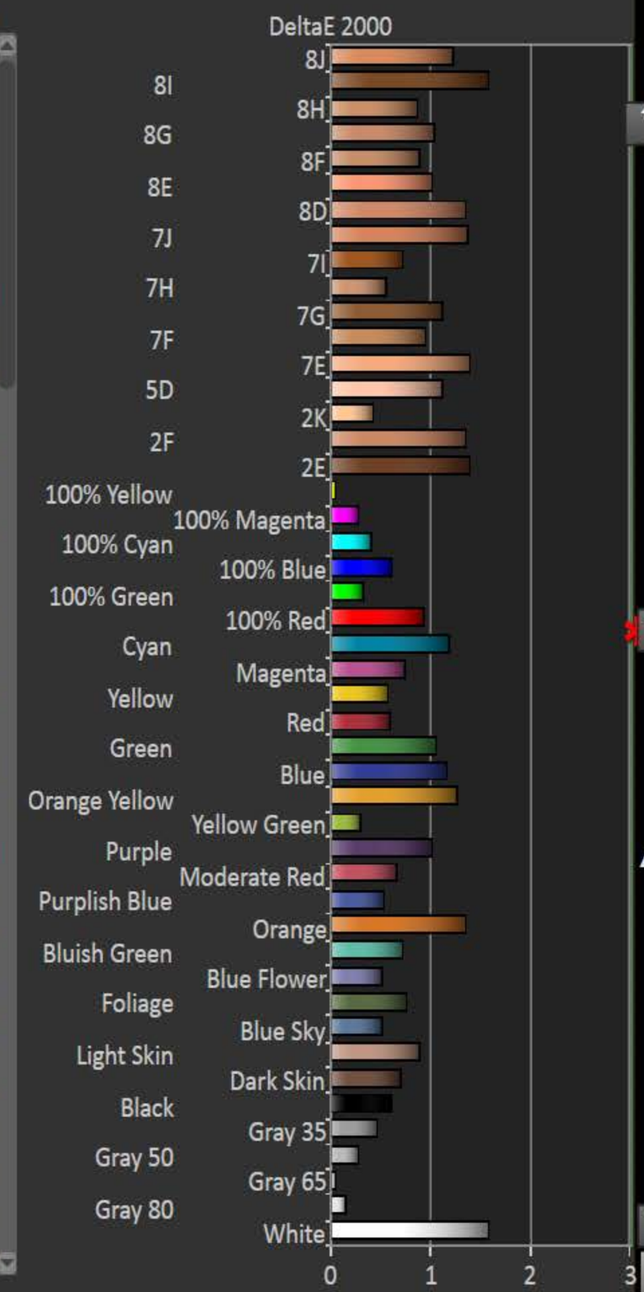
Color Checker Calibration Data

Color Notes

Calibration Notes

	White	Gray 80	Gray 65	Gray 50	Gray 35	Black	Dark Skin	Light Skin	Blue Sky	Foliage	Blue Flower	Bluish Green	O
RGB Triplet	235, 235, 235	213, 213, 213	196, 196, 196	176, 176, 176	152, 152, 152	16, 16, 16	115, 86, 73	182, 145, 128	97, 121, 150	93, 108, 73	128, 126, 167	101, 178, 161	2
RedIndex	235.0000	213.0000	196.0000	176.0000	152.0000	16.0000	115.0000	182.0000	97.0000	93.0000	128.0000	101.0000	2
GreenIndex	235.0000	213.0000	196.0000	176.0000	152.0000	16.0000	86.0000	145.0000	121.0000	108.0000	126.0000	178.0000	1
BlueIndex	235.0000	213.0000	196.0000	176.0000	152.0000	16.0000	73.0000	128.0000	150.0000	73.0000	167.0000	161.0000	5
X	77.9860	61.8198	50.2133	38.3672	26.5942	0.0937	8.9618	29.6884	14.2960	8.4439	20.1577	24.3448	2
Y cd/m²	81.5303	65.0427	52.8311	40.3675	27.9807	0.0986	8.1038	27.8773	15.2038	10.5808	18.9469	33.5003	2
Z	88.2841	70.8261	57.5287	43.9568	30.4687	0.1074	5.3231	20.7040	27.7881	5.8283	36.0853	35.1467	4
Xn 0-1	0.9565	0.7582	0.6159	0.4706	0.3262	0.0011	0.1099	0.3641	0.1753	0.1036	0.2472	0.2986	0
Yn 0-1	1.0000	0.7978	0.6480	0.4951	0.3432	0.0012	0.0994	0.3419	0.1865	0.1298	0.2324	0.4109	0
Zn 0-1	1.0828	0.8687	0.7056	0.5391	0.3737	0.0013	0.0653	0.2539	0.3408	0.0715	0.4426	0.4311	0
Stimulus Percent	1.0000	0.8995	0.8219	0.7306	0.6210	0.0000	0.4521	0.7580	0.6119	0.4201	0.6895	0.7397	0
RED Stim%:0-1	1.0000	0.8995	0.8219	0.7306	0.6210	0.0000	0.4521	0.7580	0.3699	0.3516	0.5114	0.3881	0
GRN Stim%:0-1	1.0000	0.8995	0.8219	0.7306	0.6210	0.0000	0.3196	0.5890	0.4795	0.4201	0.5023	0.7397	0
BLU Stim%:0-1	1.0000	0.8995	0.8219	0.7306	0.6210	0.0000	0.2603	0.5114	0.6119	0.2603	0.6895	0.6621	0
Measured Red Stimulus	1.0103	0.9024	0.8210	0.7265	0.6150	0.0472	0.4479	0.7479	0.3692	0.3519	0.5059	0.3830	0
Measured Green Stimulus	0.9972	0.9024	0.8210	0.7265	0.6150	0.0472	0.3220	0.5777	0.4746	0.4171	0.4969	0.7293	0
Measured Blue Stimulus	0.9972	0.9024	0.8210	0.7265	0.6150	0.0472	0.2672	0.5014	0.6058	0.2672	0.6844	0.6507	0
Stimulus	100.0000	90.0000	82.0000	73.0000	62.0000	0.0000	45.0000	76.0000	61.0000	42.0000	69.0000	74.0000	8
Target X cd/m²	77.4919	61.3910	50.3360	38.8457	27.1684	0.0000	8.9950	30.7424	14.5485	8.4597	20.5931	25.1505	2
Target Y cd/m²	81.5303	64.5904	52.9592	40.8701	28.5843	0.0000	8.0694	28.9693	15.5119	10.6948	19.3806	34.5756	2
Target Z cd/m²	88.7840	70.3369	57.6710	44.5063	31.1274	0.0000	5.0756	21.6133	28.4017	5.6104	36.6961	36.4837	4
Target Xn 0-1	0.9505	0.7530	0.6174	0.4765	0.3332	0.0000	0.1103	0.3771	0.1784	0.1038	0.2526	0.3085	0
Target Yn 0-1	1.0000	0.7922	0.6496	0.5013	0.3506	0.0000	0.0990	0.3553	0.1903	0.1312	0.2377	0.4241	0
Target Zn 0-1	1.0890	0.8627	0.7074	0.5459	0.3818	0.0000	0.0623	0.2651	0.3484	0.0688	0.4501	0.4475	0
TargetGamut:Nrml Y	1.0000	0.7922	0.6496	0.5013	0.3506	0.0000	0.1743	0.5436	0.3394	0.1484	0.4413	0.5152	0
TargetRED:Lin0-1	1.0000	0.7922	0.6496	0.5013	0.3506	0.0000	0.1743	0.5436	0.1121	0.1003	0.2287	0.1247	0
TargetGRN:Lin0-1	1.0000	0.7922	0.6496	0.5013	0.3506	0.0000	0.0813	0.3121	0.1984	0.1484	0.2198	0.5152	0
TargetBLU:Lin0-1	1.0000	0.7922	0.6496	0.5013	0.3506	0.0000	0.0518	0.2287	0.3394	0.0518	0.4413	0.4037	0
TargetGamut:Nrml MaxY	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.5677	0.6537	0.5607	0.8841	0.5386	0.8232	0
Target x:CIE31	0.3127	0.3127	0.3127	0.3127	0.3127	0.3127	0.4063	0.3780	0.2489	0.3416	0.2686	0.2614	0
Target y:CIE31	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3645	0.3562	0.2653	0.4319	0.2528	0.3594	0



CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

3D Color Cube LUT

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Day

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3D Color Cube LUT Calibration

DeltaE 2000

100 0 0

74.9 0 0

50.2 0 0

25.1 0 0

0 0 0

0 1 2 3 4 5

Color Notes

Triplet 235, 16, 16

100 0 0

Y tgt 6.20665 5.08281

x tgt 0.64 0.63814

y tgt 0.33 0.32999

30 20 10 0 -10 -20

RGB Balance

0.35 0.34 0.33 0.32 0.31

0.62 0.63 0.64 0.65 0.66

ΔL -4.46

6 -4 -2 0 2 4 6

ΔE 4.66

0 1 2 3 4 5

ΔE Avg 0.11 Max 4.66 @ 100 0 0

100 0 0

Big Comparator

Points 125

White 29.19

ΔE 4.66

100 0 0

ΔE Avg 0.11 Max 4.66 @ 100 0 0

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

Luminance Level Points

5 Points per side, SMPTE legal

Inner Data Points

Display Slot

ISF Day

Selected LUT

CAL 3d Cb

Back | Next | Data | Home | ▼ Prep | Setup | PreRd | Dyn R | ◀ Calibr | Gray | Satur | Lumi | C Chk | Data | PstRd | ▲ Anlysis | 3d Cb | Data

Ramp 16 16 | 0 0 0 | 25.1 0 0 | 50.2 0 0 | 74.9 0 0 | 100 0 0

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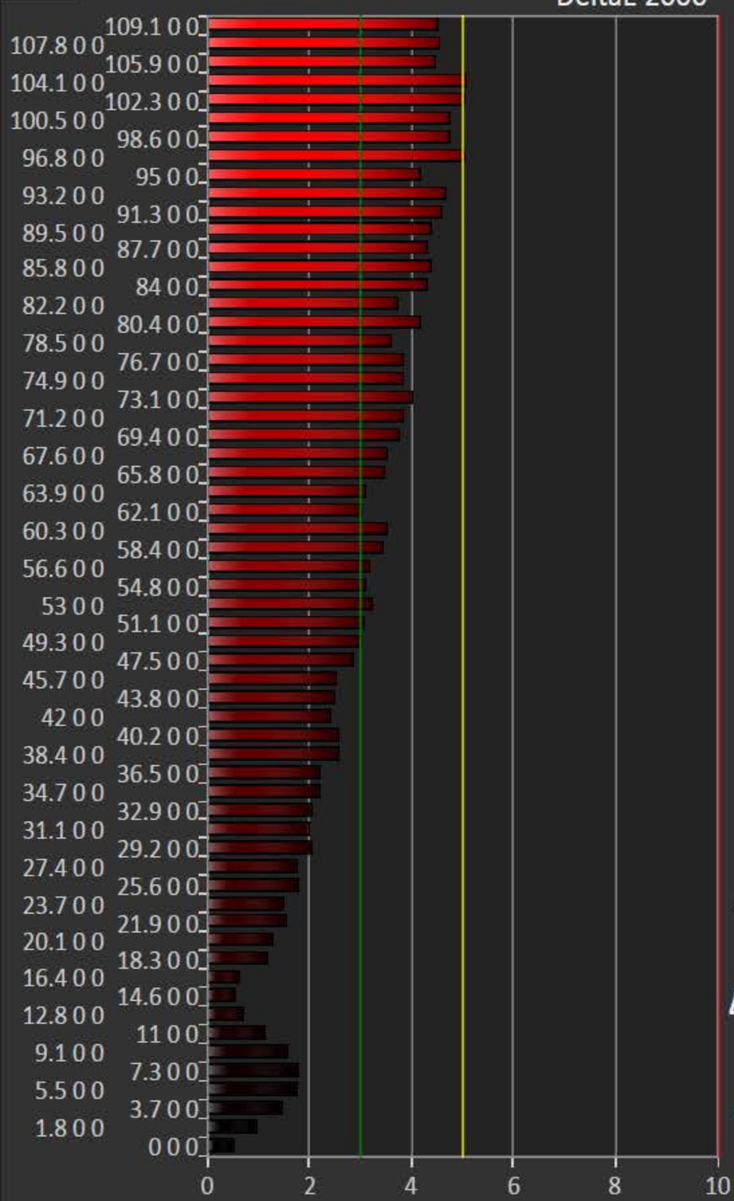
3D Color Cube LUT Calibration

DeltaE 2000

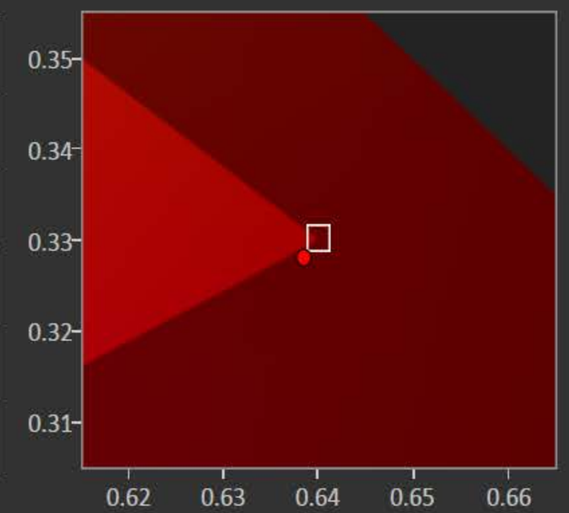


Color Notes

Triplet 255, 16, 16

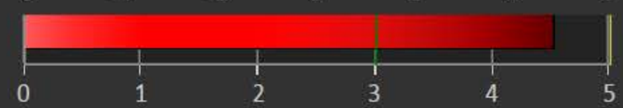
109.1 0 0

Y tgt 7.52239	x tgt 0.64	y tgt 0.33
6.22912	0.63848	0.328



ΔL -4.5

ΔE 4.52

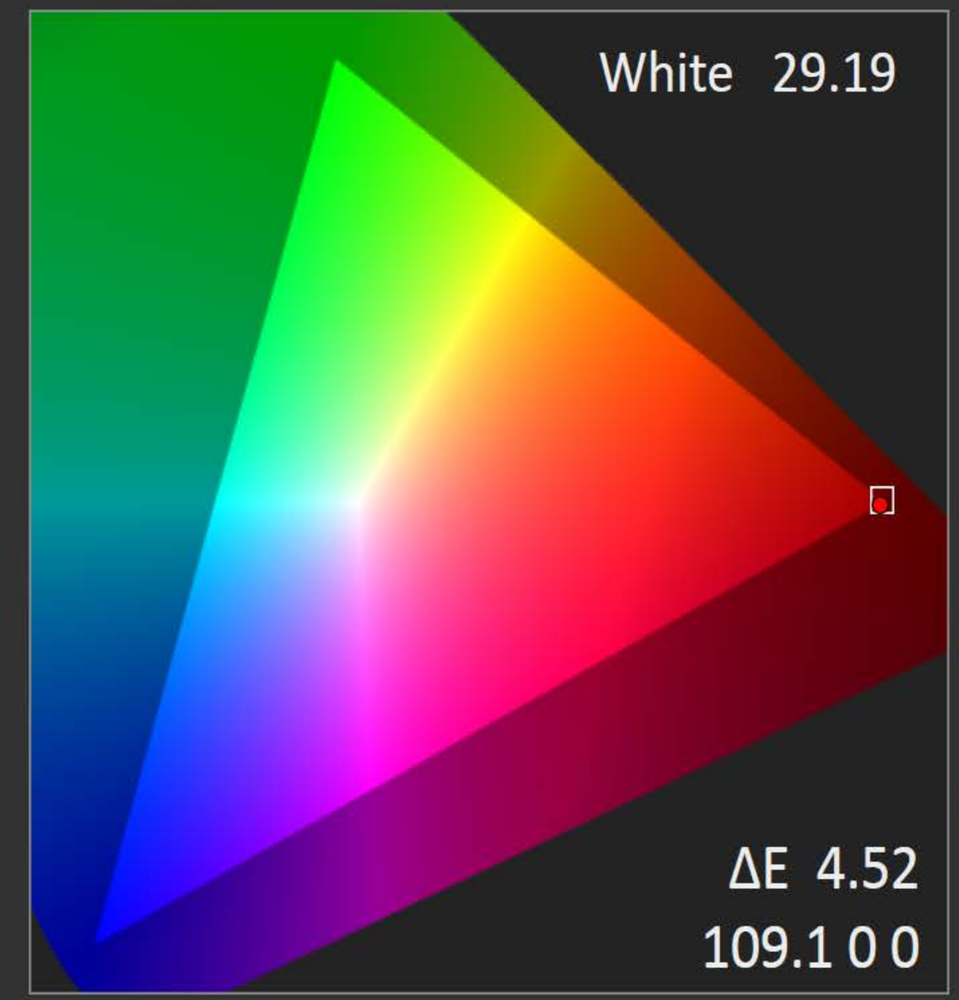


ΔE Avg 0.35 Max 5.08 @ 104.1 0 0

109.1 0 0

Big Comparator

Points 517



ΔE Avg 0.35 Max 5.08 @ 104.1 0 0

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

Luminance Level Points: 61 Points per side, Black level SMPTE legal, White le

Inner Data Points

CAL
3d Cb

Back | Next | Data | Home | ▼ Prep | Setup | PreRd | Dyn R | ◀ Calibr | Gray | Satur | Lumi | C Chk | Data | PstRd | ▲Anlysis | 3d Cb | Data

Ramp 16 16

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Datagrid

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3D Color Cube LUT Calibration Data

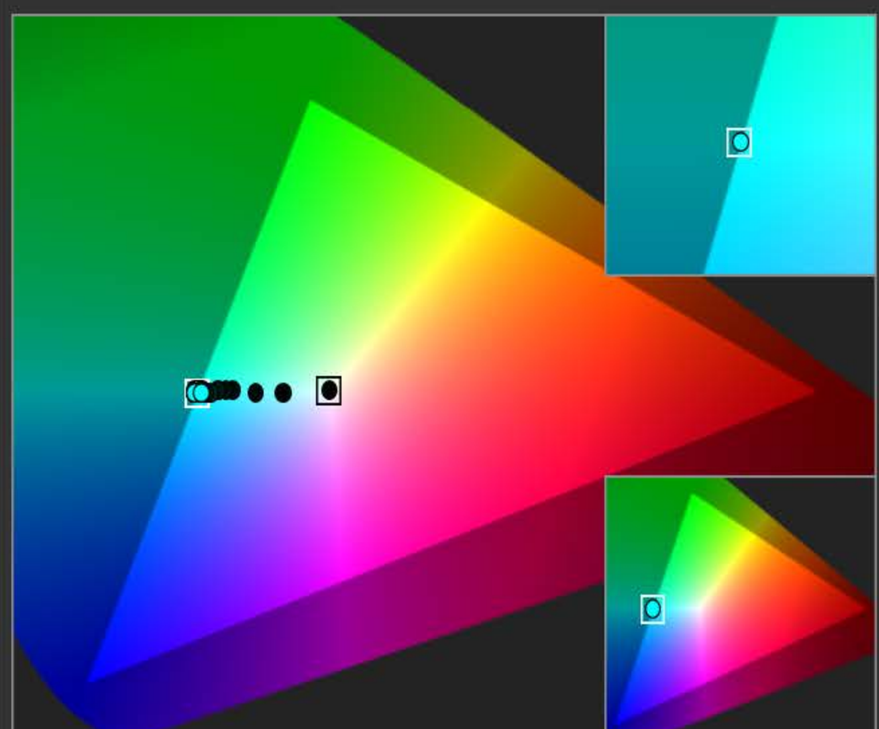
Color Notes

Less saturation

Calibration Notes

Better contrast

0 102.3 102.3



White

Red

Green

Blue

Cyan

Magenta

Yellow

	0 0 0	0 1.8 1.8	0 3.7 3.7	0 5.5 5.5	0 7.3 7.3	0 9.1 9.1	0 11 11	0 12.8 12.8	0 14.6 14.6	0 16.4 16.4	0 18.3 18.3	0 20
RGB Triplet	16, 16, 16	16, 20, 20	16, 24, 24	16, 28, 28	16, 32, 32	16, 36, 36	16, 40, 40	16, 44, 44	16, 48, 48	16, 52, 52	16, 56, 56	16,
RedIndex	16.00000	16.00000	16.00000	16.00000	16.00000	16.00000	16.00000	16.00000	16.00000	16.00000	16.00000	16.
GreenIndex	16.00000	20.00000	24.00000	28.00000	32.00000	36.00000	40.00000	44.00000	48.00000	52.00000	56.00000	60.
BlueIndex	16.00000	20.00000	24.00000	28.00000	32.00000	36.00000	40.00000	44.00000	48.00000	52.00000	56.00000	60.
X	0.09560	0.13243	0.18455	0.24702	0.33198	0.43209	0.57769	0.71404	0.85777	1.06274	1.25667	1.43
Y cd/m²	0.10059	0.15348	0.23024	0.32883	0.45100	0.59838	0.80404	1.01462	1.20672	1.52948	1.80043	2.09
Z	0.10953	0.18356	0.28532	0.41811	0.58034	0.77845	1.04898	1.35738	1.60589	2.05993	2.41923	2.79
Xn 0-1	0.00116	0.00161	0.00224	0.00299	0.00402	0.00524	0.00700	0.00865	0.01040	0.01288	0.01523	0.01
Yn 0-1	0.00122	0.00186	0.00279	0.00399	0.00547	0.00725	0.00974	0.01230	0.01463	0.01854	0.02182	0.02
Zn 0-1	0.00133	0.00222	0.00346	0.00507	0.00703	0.00943	0.01271	0.01645	0.01946	0.02497	0.02932	0.03
Stimulus Percent	0.00000	0.01826	0.03653	0.05479	0.07306	0.09132	0.10959	0.12785	0.14612	0.16438	0.18265	0.20
RED Stim%:0-1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00
GRN Stim%:0-1	0.00000	0.01826	0.03653	0.05479	0.07306	0.09132	0.10959	0.12785	0.14612	0.16438	0.18265	0.20
BLU Stim%:0-1	0.00000	0.01826	0.03653	0.05479	0.07306	0.09132	0.10959	0.12785	0.14612	0.16438	0.18265	0.20
Measured Red Stimulus	0.04737	0.04761	0.04764	0.04424	0.04576	0.04555	0.04996	0.04207	0.05211	0.03905	0.04694	0.02
Measured Green Stimulus	0.04737	0.05967	0.07356	0.08819	0.10239	0.11705	0.13406	0.14986	0.16173	0.18119	0.19491	0.20
Measured Blue Stimulus	0.04737	0.06014	0.07356	0.08756	0.10167	0.11624	0.13313	0.14986	0.16173	0.18118	0.19490	0.20
Stimulus	0.00000	2.00000	3.70000	5.50000	7.30000	9.00000	11.00000	13.00000	14.60000	16.40000	18.30000	20.
Target X cd/m²	0.00000	0.00665	0.03056	0.07457	0.14041	0.22941	0.34262	0.48094	0.64517	0.83600	1.05408	1.29
Target Y cd/m²	0.00000	0.00973	0.04472	0.10912	0.20547	0.33570	0.50136	0.70378	0.94410	1.22336	1.54249	1.90
Target Z cd/m²	0.00000	0.01322	0.06075	0.14824	0.27914	0.45607	0.68112	0.95611	1.28260	1.66198	2.09553	2.58
Target Xn 0-1	0.00000	0.00008	0.00037	0.00090	0.00170	0.00278	0.00415	0.00583	0.00782	0.01013	0.01278	0.01
Target Yn 0-1	0.00000	0.00012	0.00054	0.00132	0.00249	0.00407	0.00608	0.00853	0.01144	0.01483	0.01869	0.02
Target Zn 0-1	0.00000	0.00016	0.00074	0.00180	0.00338	0.00553	0.00826	0.01159	0.01554	0.02014	0.02540	0.03
TargetGamut:Nrml Y	0.00000	0.00015	0.00069	0.00168	0.00316	0.00517	0.00772	0.01083	0.01453	0.01883	0.02374	0.02
TargetRED:Lin0-1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00
TargetGRN:Lin0-1	0.00000	0.00015	0.00069	0.00168	0.00316	0.00517	0.00772	0.01083	0.01453	0.01883	0.02374	0.02
TargetBLU:Lin0-1	0.00000	0.00015	0.00069	0.00168	0.00316	0.00517	0.00772	0.01083	0.01453	0.01883	0.02374	0.02
TargetGamut:Nrml MaxY	1.00000	0.78734	0.78734	0.78734	0.78734	0.78734	0.78734	0.78734	0.78734	0.78734	0.78734	0.78
Target x:CIE31	0.31271	0.22465	0.22465	0.22465	0.22465	0.22465	0.22465	0.22465	0.22465	0.22465	0.22465	0.22
Target y:CIE31	0.32901	0.32874	0.32874	0.32874	0.32874	0.32874	0.32874	0.32874	0.32874	0.32874	0.32874	0.32

Calib

Calib

Anlysis

Detail

Calib

Home

16 | Ramp | Ramp

0 74.9 74.9 | 0 76.7 76.7 | 0 78.5 78.5 | 0 80.4 80.4 | 0 82.2 82.2 | 0 84 84 | 0 85.8 85.8 | 0 87.7 87.7 | 0 89.5 89.5 | 0 91.3 91.3 | 0 93.2 93.2 | 0 95 95 | 0 96.8 96.8 | 0 98.6 98.6 | 0 100.5 100.5 | 0 102.3 102.3 | 0 104.1 104.1 | 0 105.9 105.9 | 0 107.8 107.8 | 0 109.1 109.1

CalMAN 5 CalMAN Enthusiast for Home Video

CalMAN 5

Post-Cal Readings

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Night

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Post-Calibration Readings

Gamma Breakout Tot 2.18 Y Min 0.0293582 Y Max 23.8

1 Grayscale

ΔE 2000 0.01 Avg 0.74 Max 2.36

4 Color Checker

Orange Yellow

ΔE 2000 1.69 Avg 1.18 Max 1.69

2 Saturation Sweeps

100%

ΔE 2000 0.73 Avg 0.69 Max 1.39

3 Gamut Luminance

100

ΔE 2000 0.58 Avg 0.92 Max 1.68

Populate Gamut for HT report

1 Grayscale
21 Point 5% step 0-100%

2 Saturation
25% Sweeps

3 Luminance
4 Point 25% step 25-100%

4 Color Checker

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PostC
Read

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Next
PreRd
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Prep
Setup
PreRd
Dyn R
Calib
Gray
Satur
Lumi
C Chk
3d Cb
PreRd
Anlysis
Gray
Satur
Lumi
C Chk
3d Cb
Final

• ISF Night •

Post-Cal Readings

Contrast
Brightness
Backlight
TV Gamma
Color
Tint

Post-cal notes

Post-Calibration Notes

Post-Cal

Display Slot
ISF Night

Use [···] below to read ALL series or select a series above

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Post-Calibration

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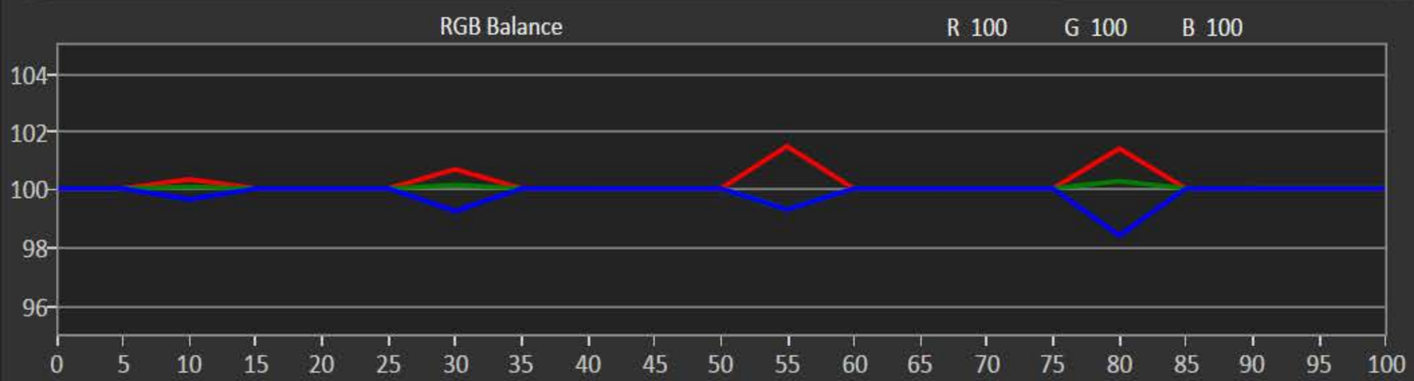
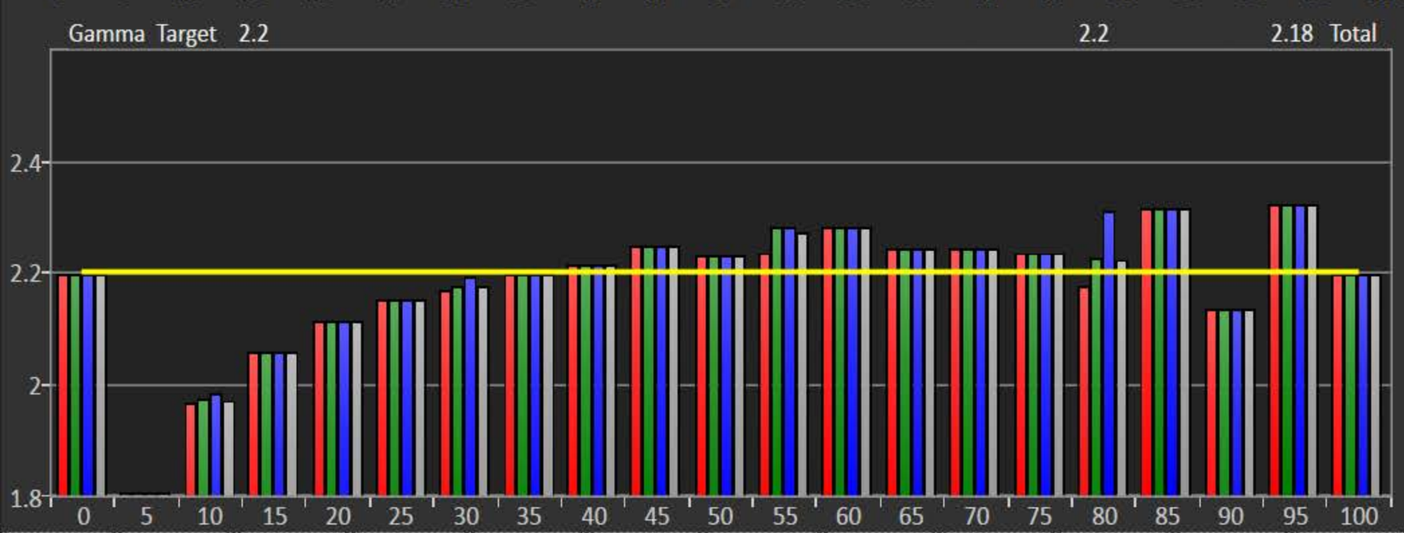
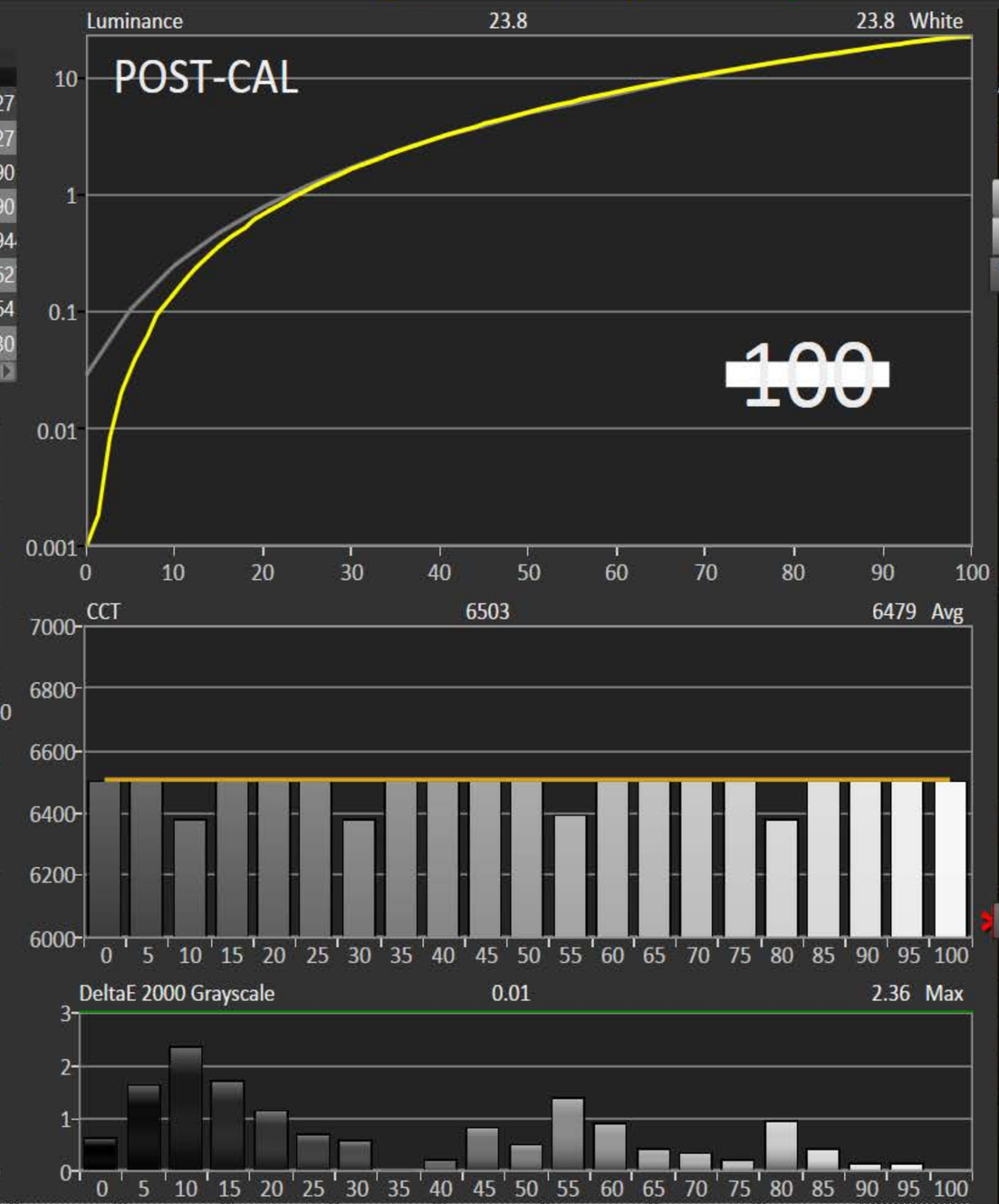
Post-Cal : Grayscale Detail

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
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	0.3127
x: CIE31	0.3127	0.3127	0.3147	0.3127	0.3127	0.3127	0.3147	0.3127	0.3127	0.3127	0.3127	0.3147	0.3127	0.3127	0.3127	0.3127
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	0.3290
y: CIE31	0.3290	0.3290	0.3310	0.3290	0.3290	0.3290	0.3310	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290
Target Y	0.0000	0.0330	0.1517	0.3700	0.6968	1.1385	1.7003	2.3867	3.2017	4.1488	5.2310	6.3346	7.6828	9.1739	10.8104	12.594
Y	0.0294	0.1065	0.2552	0.4819	0.7995	1.2178	1.7457	2.3913	3.1624	3.9863	5.1092	6.0628	7.3642	8.9965	10.6450	12.462
Gamma Point: Flat	2.2000	1.8084	1.9735	2.0605	2.1144	2.1512	2.1780	2.1982	2.2136	2.2503	2.2342	2.2729	2.2824	2.2451	2.2430	2.2364
ΔE 2000	0.6410	1.6336	2.3578	1.7392	1.1672	0.7110	0.5856	0.0297	0.2258	0.8499	0.5286	1.4085	0.9418	0.4334	0.3418	0.2330







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

ANL
PostC
Gray
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PreCal
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PostCal
PstRd

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Post-Calibration

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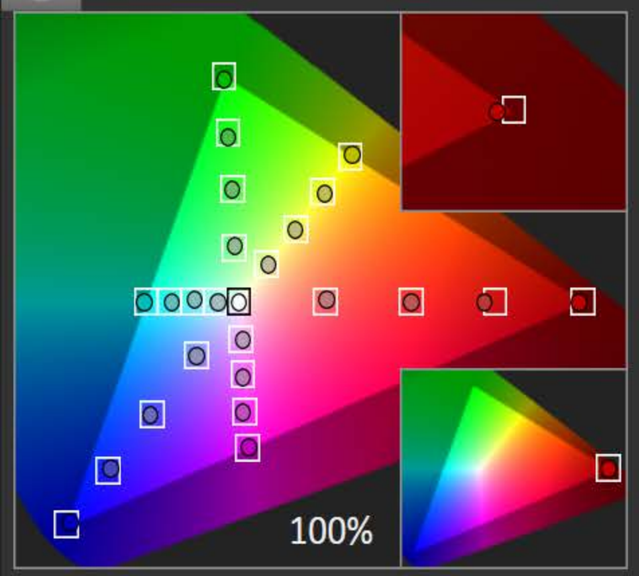
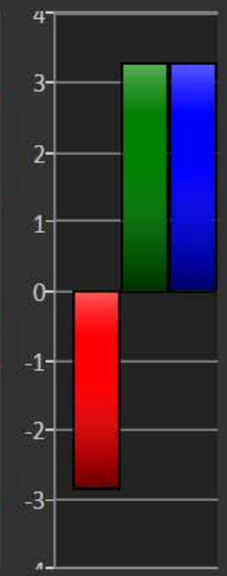
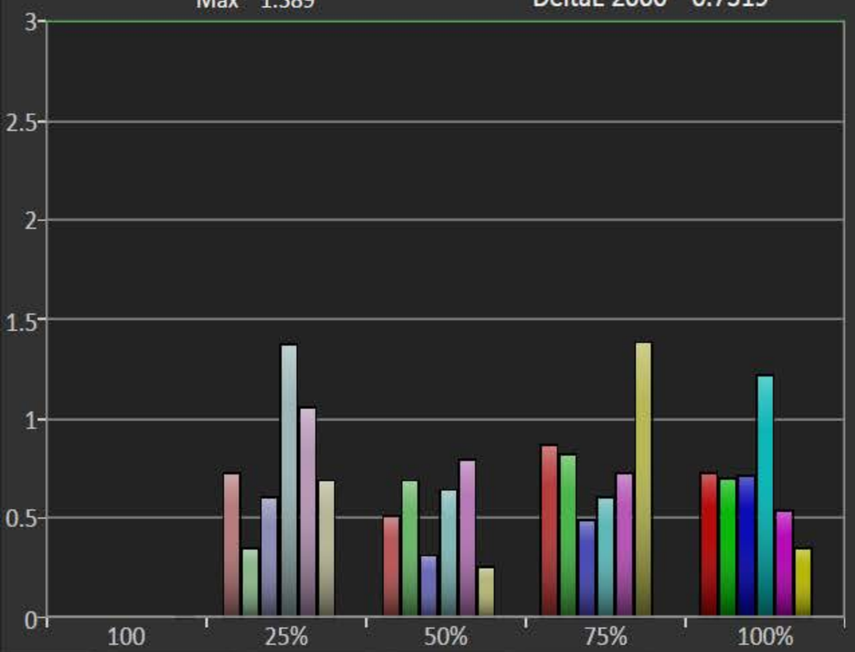
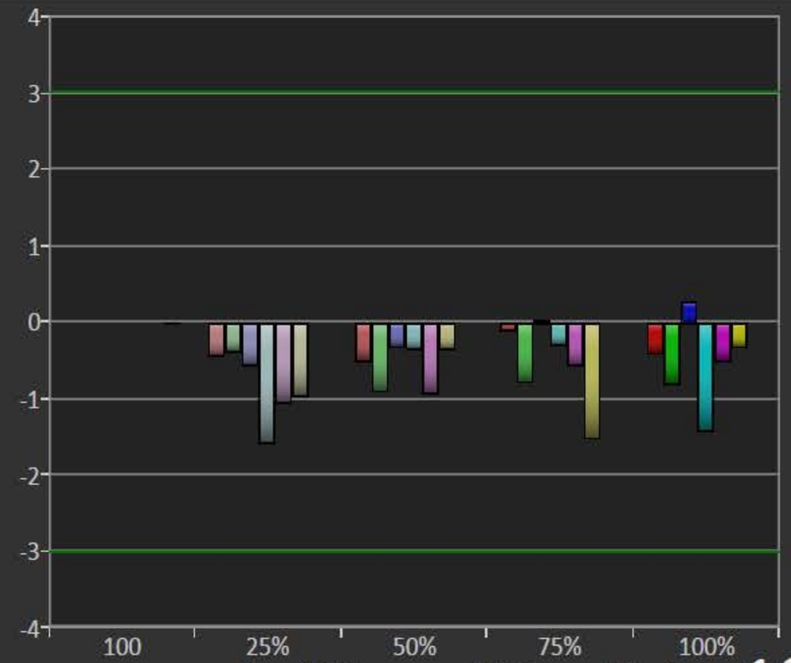
Post-Cal : Saturation Sweep Detail





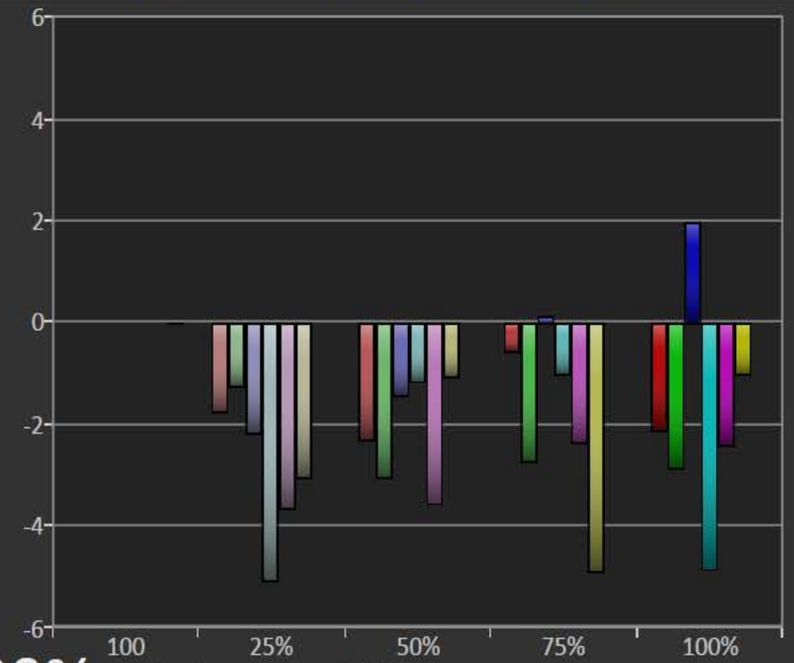
Max 1.389 DeltaE 2000 0.7319





Max 1.5799 -0.403 Delta L

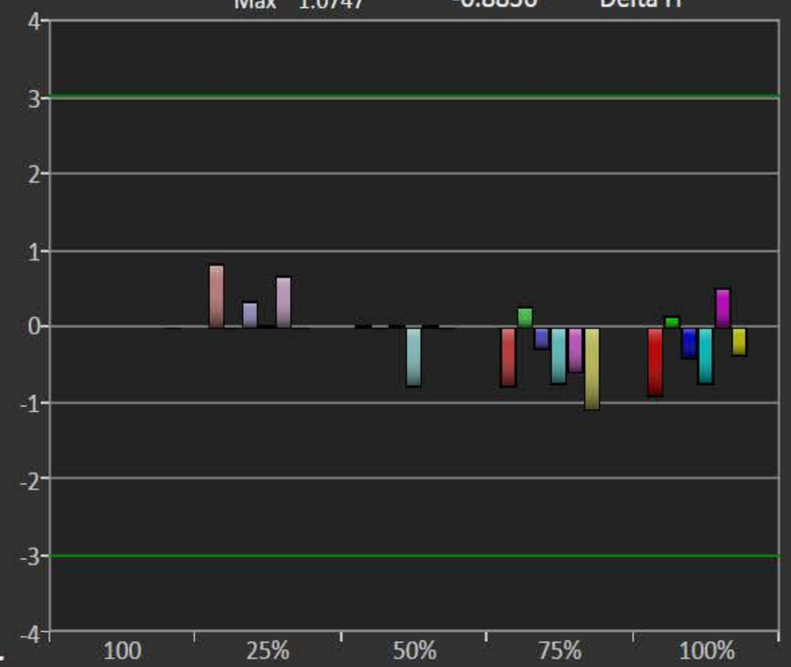
Max 1.0747 -0.8836 Delta H



100%

Luminance -2.1434

Delta C -1.4724 4.5215 Max



25% 50% 75% 100%

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Post-Calibration

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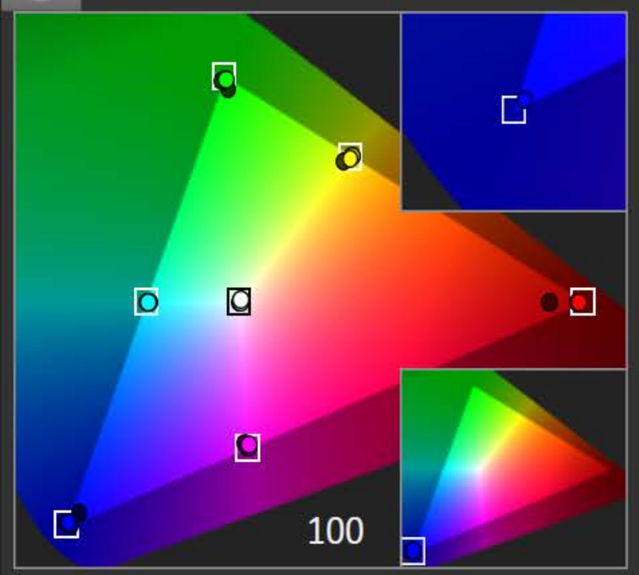
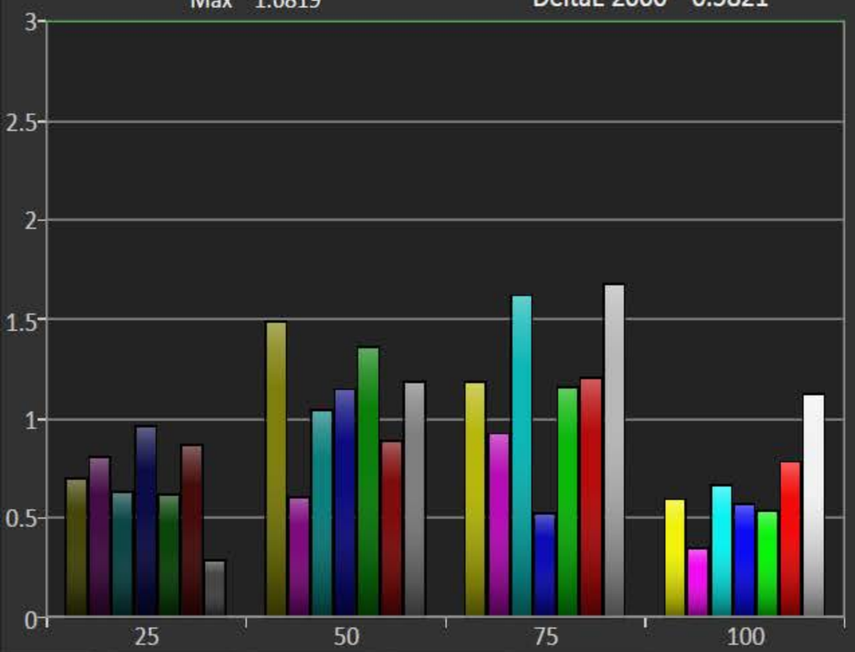
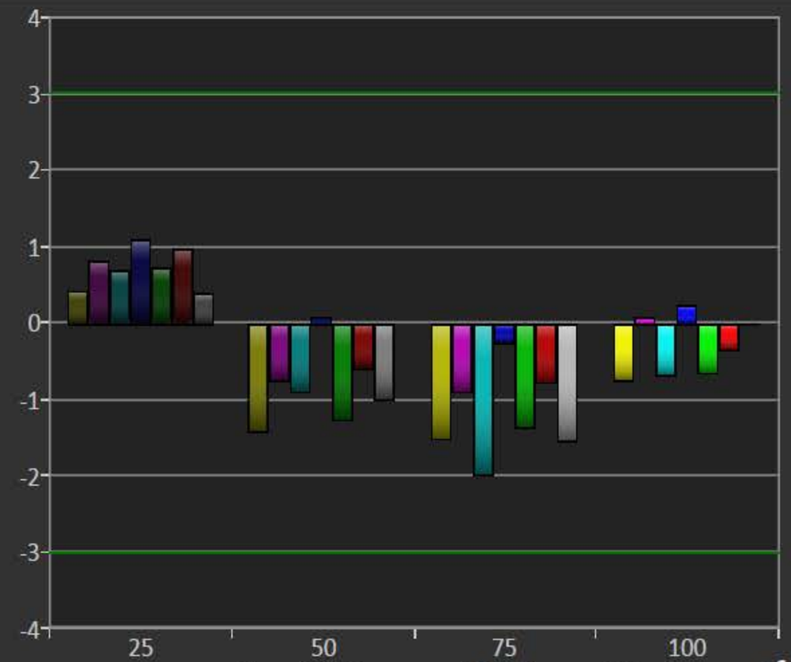
Post-Cal : Gamut Luminance Detail



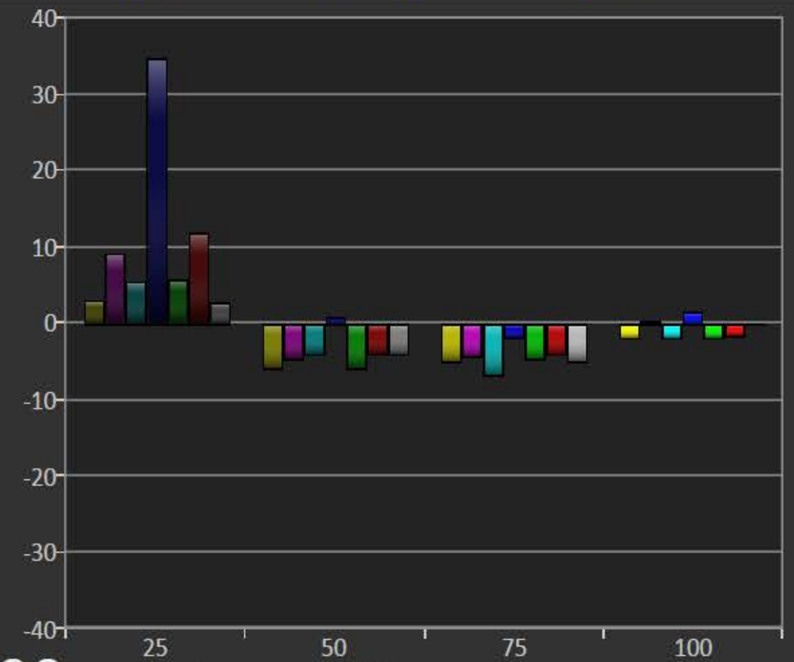
Max 1.6819 DeltaE 2000 0.5821





Max 1.9893 0.2481 Delta L

Max 1.3383 -0.2977 Delta H



100

Luminance 1.549

Delta C -4.3648 8.7651 Max

25 50 75 100

POST-CAL

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Color Check CIE

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Color Checker CIE Charts

Pre-Cal Orange Yellow

Orange Yellow Post-Cal

dE 2000 1.42 | Luminance -2.83

dE 2000 1.69 | Luminance -4.7763

Color Notes: Less saturation

→ Pre-Cal Detail

Show RGB Balance

→ Post-Cal Detail

Better contrast

Calibration Notes

PreCal - Orange Yellow
Bottom Slider

Orange Yellow - PostCal
Top Slider

Gray 80	Gray 65	Gray 50	Gray 35	Black	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
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

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Color Checker CIE Charts

Pre-Cal Orange Yellow

Orange Yellow Post-Cal

dE 2000 1.42 | Luminance -2.83

dE 2000 1.69 | Luminance -4.7763

Color Notes: Less saturation

→ Pre-Cal Detail

☒ Show RGB Balance

→ Post-Cal Detail

PreCal - Orange Yellow
Bottom Slider

Orange Yellow - PostCal
Top Slider

Calibration Notes: Better contrast

Gray 80	Gray 65	Gray 50	Gray 35	Black	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
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

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Post-Calibration

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Night

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Post-Cal : Color Checker Detail

PostCal - Orange Yellow

Color Notes: Less saturation

DeltaE 2000 1.687 Max 1.687 | DeltaC -1.459 Max 3.676 | DeltaH -1.958 Max 1.958 | Gamut Luminance -4.776 | DeltaL -1.416 Max 1.548

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, Black, Gray 35, Gray 50, Gray 65, Gray 80, White

0 0.5 1 1.5 2 2.5 3 | -4 -2 0 2 4 | -4 -2 0 2 4 | -10 -5 0 5 10 | -4 -2 0 2 4

→ CIE Charts

Gray 80 | Gray 65 | Gray 50 | Gray 35 | Black | 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 | PostC C Chk | Back | Next | CIE | PreCal | Home | Prep | PreRd | Calibr | C Chk | PstRd | Anlysis | Gray | Satur | Lumi | PreCal | CIE | 3d Cb | PostCal | PstRd

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CalMAN 5

DeltaE DeltaL Lminance | DeltaE DeltaH DeltaC

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Cal : 3D Color Cube LUT Detail

0 102.3 102.3

Red | Green | Blue | White

Cyan | Magenta | Yellow

ΔE 2000 0.2 Avg 1.1 Max 4.02

Delta L -0.31 Avg -0.15 Max 3.53

Luminance 19.75424

ANL

Cal 3D Cb

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16 | Ramp | Ramp

0 74.9 74.9 | 0 76.7 76.7 | 0 78.5 78.5 | 0 80.4 80.4 | 0 82.2 82.2 | 0 84 84 | 0 85.8 85.8 | 0 87.7 87.7 | 0 89.5 89.5 | 0 91.3 91.3 | 0 93.2 93.2 | 0 95 95 | 0 96.8 96.8 | 0 98.6 98.6 | 0 100.5 100.5 | 0 102.3 102.3 | 0 104.1 104.1 | 0 105.9 105.9 | 0 107.8 107.8 | 0 109.1 109.1

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CalMAN 5

DeltaE DeltaL Luminance | DeltaE DeltaH DeltaC

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Cal : 3D Color Cube LUT Detail

0 102.3 102.3

Red | Green | Blue | White

Cyan | Magenta | Yellow

ΔE 2000 0.2 Avg 1.1 Max 4.02

Delta H 0 Avg -0.12 Max 2.68

Delta C -0.08 Avg -0.6 20.68 Max

ANL

Cal 3D Cb

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16 | Ramp | Ramp

0 74.9 74.9 | 0 76.7 76.7 | 0 78.5 78.5 | 0 80.4 80.4 | 0 82.2 82.2 | 0 84 84 | 0 85.8 85.8 | 0 87.7 87.7 | 0 89.5 89.5 | 0 91.3 91.3 | 0 93.2 93.2 | 0 95 95 | 0 96.8 96.8 | 0 98.6 98.6 | 0 100.5 100.5 | **0 102.3 102.3** | 0 104.1 104.1 | 0 105.9 105.9 | 0 107.8 107.8 | 0 109.1 109.1

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Final Check

Simulated Meter LCD Direct View (LED Backlight) | Source | Sharp Elite ISF Night

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Final Check

CONTRAST VERIFICATION

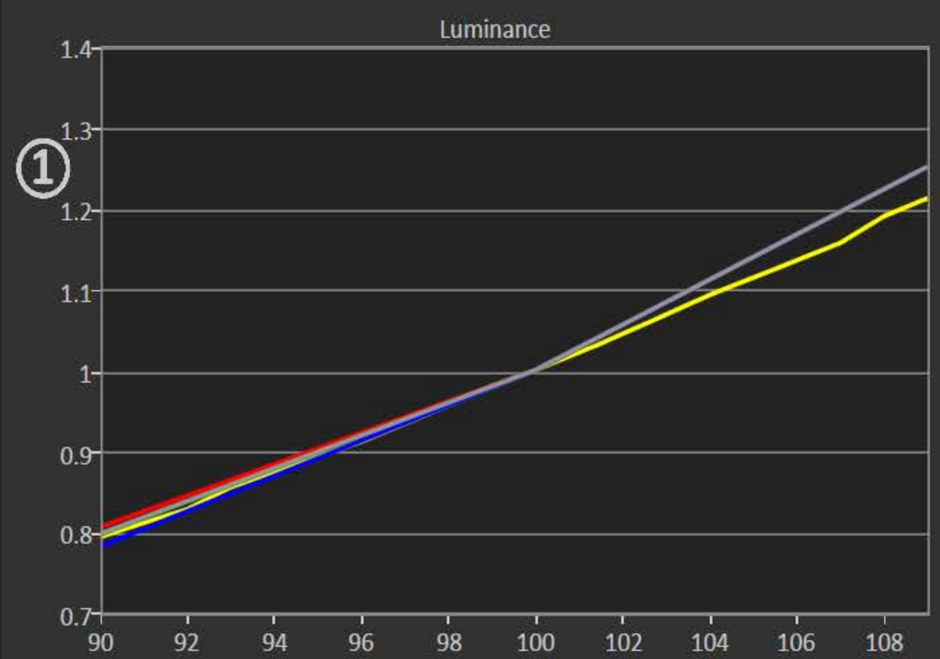
Data Points: select Clipping or Clipping with Peak White:

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

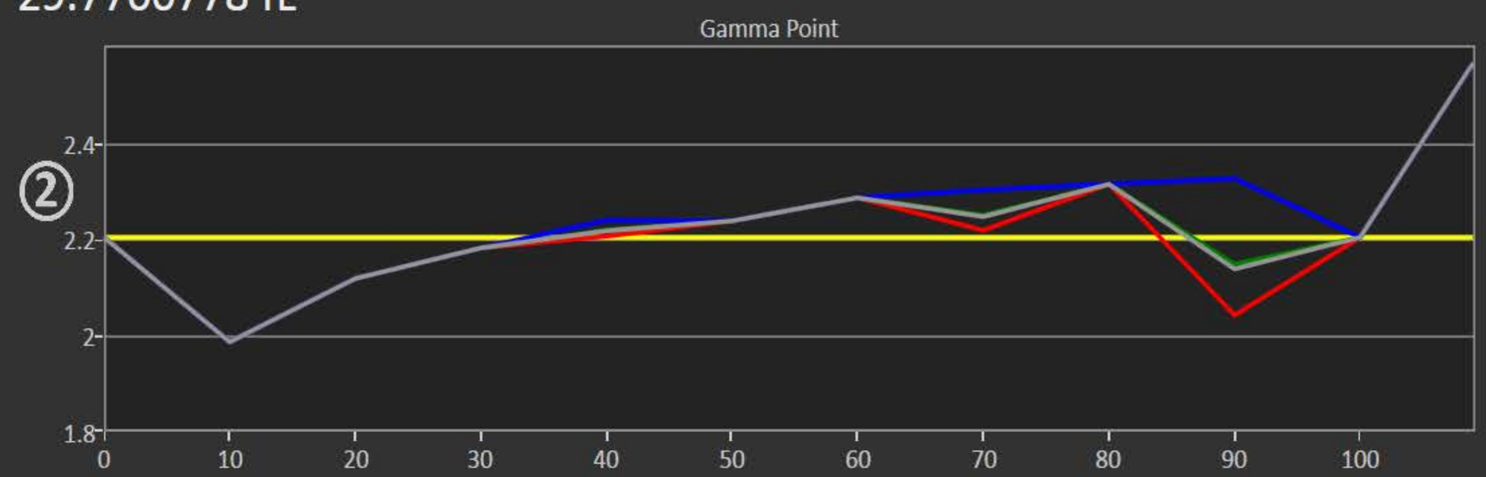
Data Points: select a full set of grayscale points, e.g. 11: 12 Point 10% step 0-109%

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



109

29.7700778 fL



Post-Calibration Summary

Grayscale dE	Avg	0.74	Saturation dE	Avg	0.69
	Max	2.36		Max	1.39
Luminance dE	Avg	0.92	Color Checker dE	Avg	1.18
	Max	1.68		Max	1.69
3D Color Cube LUT	Avg	1.1	Gamma Total		2.18
	Max	4.02	CCT Average		6479
White	23.8	fL			
Black	0.0293582		Contrast Ratio		811

Final Notes

Post-cal notes

Contrast | Backlight | Color
Brightness | TV Gamma | Tint

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Saturation Datagrids

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Pre-Cal : Saturation Sweep Data

	25%	50%	75%	100%
RGB Triplet	180, 123, 123	180, 90, 90	180, 64, 64	180, 16, 16
x: CIE31	0.0000	0.0000	0.0000	0.0000
Target x:CIE31	0.3940	0.4771	0.5572	0.6400
y: CIE31	0.0000	0.0000	0.0000	0.0000
Target y:CIE31	0.3293	0.3295	0.3297	0.3300
Y	0.0000	0.0000	0.0000	0.0000
Target Y	8.0385	5.3969	4.0999	3.2850
Gamma Point: Flat	0.0000	0.0000	0.0000	0.0000
ΔE 2000	0.0000	0.0000	0.0000	0.0000
ΔE 1994 L*:±	0.0000	0.0000	0.0000	0.0000
ΔE 1994 Sat:±	0.0000	0.0000	0.0000	0.0000
ΔE 1994 Hue:±	0.0000	0.0000	0.0000	0.0000
Signed dE94 L LuminanceCompensated	0.0000	0.0000	0.0000	0.0000
Signed dE94 C LuminanceCompensated	0.0000	0.0000	0.0000	0.0000
Signed dE94 H LuminanceCompensated	0.0000	0.0000	0.0000	0.0000

Post-Cal : Saturation Sweep Data

	25%	50%	75%	100%
RGB Triplet	180, 123, 123	180, 90, 90	180, 64, 64	180, 16, 16
x: CIE31	0.3973	0.4773	0.5471	0.6364
Target x:CIE31	0.3940	0.4771	0.5572	0.6400
y: CIE31	0.3313	0.3295	0.3297	0.3300
Target y:CIE31	0.3293	0.3295	0.3297	0.3300
Y	6.4377	4.2988	3.3234	2.6209
Target Y	6.5538	4.4001	3.3427	2.6783
Gamma Point: Flat	4.5204	5.9168	6.8066	7.6278
ΔE 2000	0.7300	0.5205	0.8659	0.7319
ΔE 1994 L*:±	-0.4482	-0.5112	-0.1161	-0.4030
ΔE 1994 Sat:±	0.4555	-0.3083	-2.8057	-2.0810
ΔE 1994 Hue:±	0.8180	0.0088	-0.7846	-0.8868
Signed dE94 L LuminanceCompensated	0.0000	0.0000	0.0000	0.0000
Signed dE94 C LuminanceCompensated	0.6224	0.0619	-2.6821	-1.4724
Signed dE94 H LuminanceCompensated	0.8156	0.0087	-0.7838	-0.8836

Click Change Selection then right-click above on either datagrid panel to show possible selections (ESC the context menu)

25% 50% 75% 100% PRE-CAL Change Selection 25% 50% 75% 100% POST-CAL Home → Post-C Detail → Pre-C Detail « Back Next »

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CalMAN 5

Color Check Datagrids

Simulated Meter LCD Direct View | Generic Calibration DVD | Direct Display Control

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Pre-Cal : Color Checker Data — PRE-CAL

	Black	Gray 35	Gray 50	Gray 65	Gray 80	White	Dark Skin	Light Skin	Blue Sky	Foliage	Blue Flower	Bluish Green	Orange	Purplish Blue	Moderate Red	Purple	Yellow Green	Orange Yellow	Blue	Green	Red
RED Linear 0-1	0.0012	0.3372	0.5002	0.6008	0.7999	1.0227	0.1676	0.5243	0.1146	0.0996	0.2045	0.1270	0.6987	0.0676	0.5322	0.1039	0.3267	0.7735	0.0297	0.0648	0.428
TargetRED:Lin0-1	0.0000	0.3506	0.5013	0.6496	0.7922	1.0000	0.1743	0.5436	0.1121	0.1003	0.2287	0.1247	0.6982	0.0668	0.5436	0.1061	0.3506	0.7922	0.0293	0.0601	0.441
Green Linear 0-1	0.0012	0.3277	0.4946	0.6295	0.7773	0.9939	0.0783	0.2912	0.1840	0.1428	0.2097	0.4871	0.1861	0.1039	0.0846	0.0467	0.4768	0.3388	0.0476	0.2817	0.029
TargetGRN:Lin0-1	0.0000	0.3506	0.5013	0.6496	0.7922	1.0000	0.0813	0.3121	0.1984	0.1484	0.2198	0.5152	0.1902	0.1061	0.0865	0.0441	0.5013	0.3620	0.0441	0.3016	0.026
Blue Linear 0-1	0.0012	0.3277	0.4854	0.6178	0.7774	0.9939	0.0531	0.2127	0.3218	0.0548	0.4135	0.3785	0.0224	0.3590	0.1140	0.1432	0.0469	0.0241	0.2999	0.0607	0.041
TargetBLU:Lin0-1	0.0000	0.3506	0.5013	0.6496	0.7922	1.0000	0.0518	0.2287	0.3394	0.0518	0.4413	0.4037	0.0177	0.3737	0.1183	0.1484	0.0478	0.0225	0.3121	0.0601	0.038
x: CIE31	0.3147	0.3147	0.3147	0.3107	0.3147	0.3147	0.4023	0.3813	0.2515	0.3398	0.2661	0.2638	0.5132	0.2166	0.4653	0.2896	0.3756	0.4773	0.1909	0.3072	0.539
Target x:CIE31	0.3127	0.3127	0.3127	0.3127	0.3127	0.3127	0.4063	0.3780	0.2489	0.3416	0.2686	0.2614	0.5146	0.2147	0.4641	0.2882	0.3774	0.4749	0.1883	0.3049	0.547
y: CIE31	0.3310	0.3290	0.3310	0.3310	0.3290	0.3290	0.3600	0.3562	0.2634	0.4237	0.2540	0.3602	0.4053	0.1912	0.3131	0.2233	0.4955	0.4387	0.1420	0.4874	0.319
Target y:CIE31	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3645	0.3562	0.2653	0.4319	0.2528	0.3594	0.4095	0.1891	0.3122	0.2164	0.4955	0.4427	0.1349	0.4948	0.318
Y	0.0294	7.8463	11.7818	14.8148	18.6114	23.7957	2.2724	7.9736	4.2634	3.0276	5.3131	9.5820	6.7415	2.7271	4.3291	1.5667	9.8485	9.7210	1.4753	5.2255	2.741
Target Y	0.0000	8.3427	11.9285	15.4569	18.8516	23.7957	2.3552	8.4551	4.5274	3.1214	5.6565	10.0914	6.8004	2.7857	4.4263	1.5423	10.3871	10.2085	1.4348	5.5394	2.749

Post-Cal : Color Checker Data — POST-CAL

	Black	Gray 35	Gray 50	Gray 65	Gray 80	White	Dark Skin	Light Skin	Blue Sky	Foliage	Blue Flower	Bluish Green	Orange	Purplish Blue	Moderate Red	Purple	Yellow Green	Orange Yellow	Blue	Green	Red
RED Linear 0-1	0.0013	0.3511	0.4964	0.6131	0.7800	1.0353	0.1660	0.5313	0.1117	0.1005	0.2165	0.1296	0.6902	0.0730	0.5492	0.1061	0.3368	0.7695	0.0303	0.0639	0.437
TargetRED:Lin0-1	0.0000	0.3506	0.5013	0.6496	0.7922	1.0000	0.1743	0.5436	0.1121	0.1003	0.2287	0.1247	0.6982	0.0668	0.5436	0.1061	0.3506	0.7922	0.0293	0.0601	0.441
Green Linear 0-1	0.0012	0.3412	0.4824	0.6424	0.8030	0.9887	0.0816	0.3071	0.1941	0.1461	0.2167	0.4970	0.1811	0.1080	0.0897	0.0461	0.4971	0.3514	0.0486	0.2942	0.029
TargetGRN:Lin0-1	0.0000	0.3506	0.5013	0.6496	0.7922	1.0000	0.0813	0.3121	0.1984	0.1484	0.2198	0.5152	0.1902	0.1061	0.0865	0.0441	0.5013	0.3620	0.0441	0.3016	0.026
Blue Linear 0-1	0.0012	0.3412	0.4825	0.6305	0.8030	1.0077	0.0528	0.2254	0.3321	0.0549	0.4363	0.3862	0.0206	0.3670	0.1164	0.1426	0.0529	0.0259	0.3061	0.0641	0.043
TargetBLU:Lin0-1	0.0000	0.3506	0.5013	0.6496	0.7922	1.0000	0.0518	0.2287	0.3394	0.0518	0.4413	0.4037	0.0177	0.3737	0.1183	0.1484	0.0478	0.0225	0.3121	0.0601	0.038
x: CIE31	0.3147	0.3147	0.3147	0.3107	0.3107	0.3147	0.4003	0.3773	0.2495	0.3398	0.2661	0.2638	0.5152	0.2186	0.4653	0.2916	0.3736	0.4733	0.1909	0.3052	0.537
Target x:CIE31	0.3127	0.3127	0.3127	0.3127	0.3127	0.3127	0.4063	0.3780	0.2489	0.3416	0.2686	0.2614	0.5146	0.2147	0.4641	0.2882	0.3774	0.4749	0.1883	0.3049	0.547
y: CIE31	0.3290	0.3290	0.3290	0.3310	0.3290	0.3270	0.3640	0.3562	0.2654	0.4257	0.2520	0.3602	0.4053	0.1932	0.3151	0.2233	0.4935	0.4407	0.1420	0.4874	0.317
Target y:CIE31	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3645	0.3562	0.2653	0.4319	0.2528	0.3594	0.4095	0.1891	0.3122	0.2164	0.4955	0.4427	0.1349	0.4948	0.318
Y	0.0288	8.0064	11.3198	14.8148	18.6114	23.3198	2.2724	8.1364	4.3504	3.0276	5.4215	9.5820	6.4772	2.7816	4.4157	1.5354	10.0495	9.7210	1.4753	5.3321	2.741
Target Y	0.0000	8.1759	11.6899	15.1477	18.4745	23.3198	2.3081	8.2860	4.4368	3.0590	5.5433	9.8896	6.6644	2.7300	4.3378	1.5115	10.1794	10.0044	1.4061	5.4286	2.694

Change Selection

Click Change Selection then right-click above on either datagrid panel to show possible selections (ESC the context menu)

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