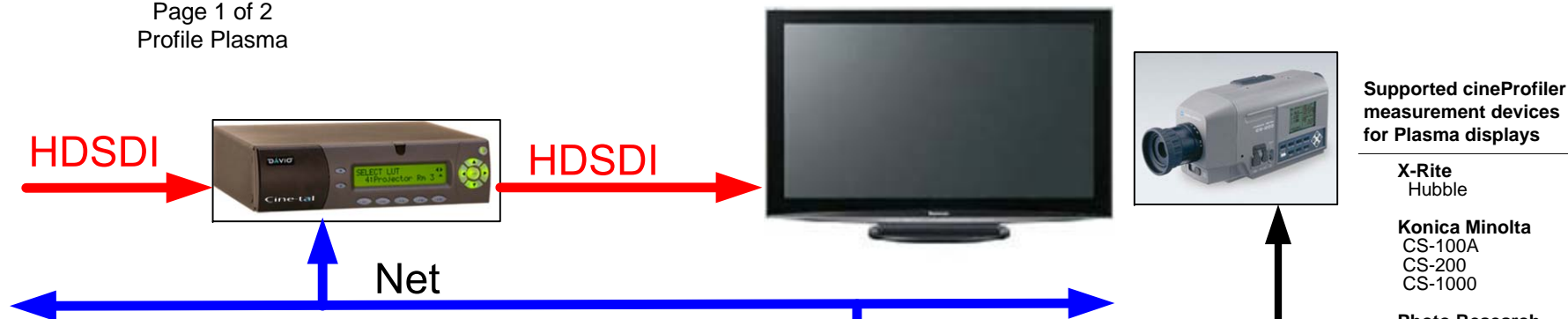


PLASMA Calibration

Rec 709 / YCbCr / SMPTE range

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Profile Plasma



STEP 1: SETUP PANASONIC PLASMA DISPLAY

In general these settings have been a good starting place for the Panasonic 10 and 11 series products.

- Mode: Standard
- Picture: 0
- Brightness: +3
- Color Temp: Normal
- Advanced Settings: On
- Black Extension: 0
- Input Level: -20
- Gamma: 2.5
- All enhancements OFF**
- Color management OFF**
- All other settings at 0**

STEP 2: SETUP DAVIO

The DAVIO must be running one of the following library packages:

- 516-LIB-1040 Video Display Cal. w/FS
- 516-LIB-1050 Video Display Cal. w/Dual 3D LUT
- 516-LIB-1620 Video Display Controller (SDI)
- 516-LIB-1610 Video Display Controller (HDMI)

- If preset for profiling has been set then select preset (F1). If not setup as follows:
 - Press the up button twice to get to top menu.
 - Press right button until the display shows "System".
 - Press down button once to enter the system menu.
 - Press right until you see "Colour Space".
 - Use the + - buttons to change Colour Space to YCbCr SMPTE.
 - Press the up button twice to get to top menu.
 - Press the left button to page to Davio Field Generator.
 - Press the down button once to enter the Field Generator menus.
 - Use the + - buttons to set the pattern generator patch size to 25% - 40%. (This is dependent of the probe distance from the display)
 - Press the up button twice to get to top menu.
 - Press right button until the display shows "Unit Info".
 - Press down button once to enter the unit info menu.
 - Press the left button twice. The display should show the IP address. Write it down _____
 - Press the up button twice to get to top menu.
 - Press the left button to page to SDI Out 1
 - Press the down button to enter SDI out 1 menus.
 - Use the + - buttons to set SDI Out 1 to Profile Generator
 - Press and hold F1. This will be the saved profile setup.



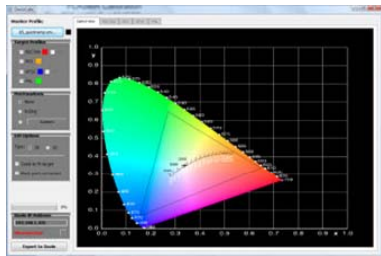
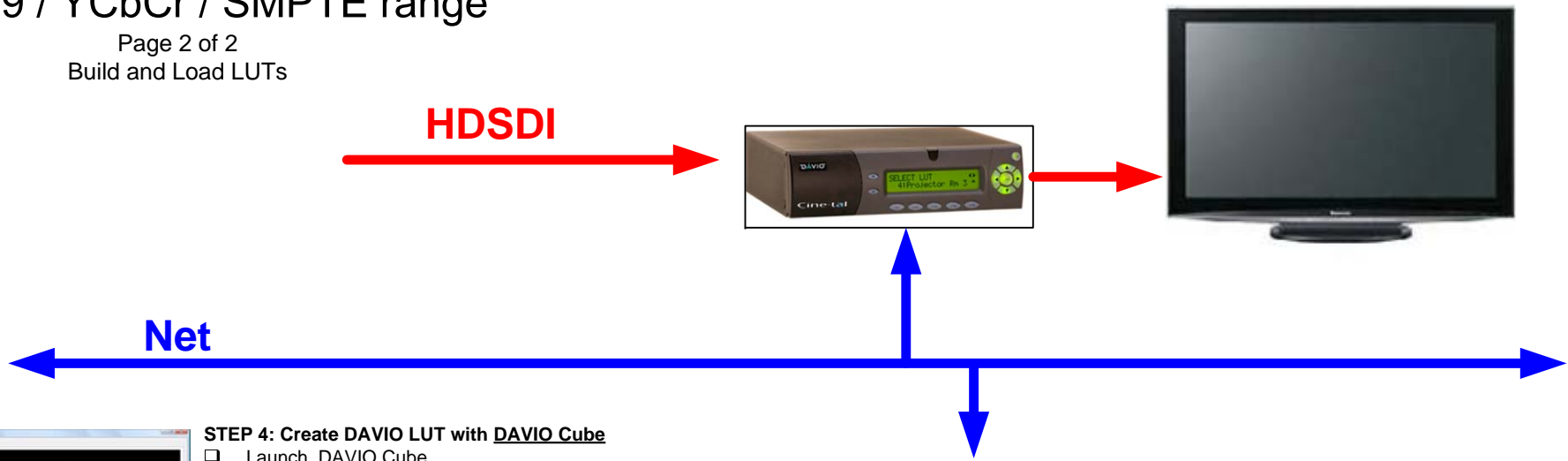
STEP 3: Run CineSpace Profiler (V 2.8)

- Select Plasma
- Un Check "Brightness", "Contrast", Bias, and Gain under viewing device controls.
- Select Quick Ramp
- Un Check "Do output independent profiling"
- Un Check all "LUT Behavior" boxes
- Under Plugins select Davio Calibration
- Enter IP address from step 2
- Select Detect probe
- Some probes require a calibrate step which typically includes putting a les cap on the probe then selecting the calibrate button in cineProfiler.
- Select Start Profile
- When profile is complete check the reported values for luminance (Y) in the xyY data. (reported at the bottom of the user interface)
- In the Plasma Monitor menus adjust Picture control up or down then Re-profile with a quickramp (start step 3 over) to get a new xyY reading. Continue this step until luminance "Y" meets your facilities desired luminance output (typically 30 FL.).
- After profiling you will most likely you will get a warning that the display does not decouple. This is typical for a Plasma system.
- Once you have the Y level to your desired level re-profile using a Full Ramp (2 minutes with Klein).
- Save profile.

PLASMA Calibration

Rec 709 / YCbCr / SMPTE range

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Build and Load LUTs



STEP 4: Create DAVIO LUT with DAVIO Cube

- Launch DAVIO Cube
- Select Monitor Profile (plasma profile saved in step 3)
- Select Target Profile (Rec 709)
- Set Pre Transform to None
- Set LUT option type to 3D
- Check "Scale To Fit Target"
- Do not check "Black Point Correction"
- Type in Davio IP address from step 2
- Select "Export to Davio"

OR



STEP 4: Create Davio LUT with cineCube Visual

- Launch cineCube Visual.
- Select Monitor Profile (plasma profile saved in step 3).
- Select Target Profile (ITU Rec 709 HD).
- Set "Type" to Cine-tal, and "Bits" to 6.
- Select scaling and set scale factor to 1.
- Set "Out of gamut" to None.
- Set resolution to accurate.
- Printer lights are reset to 25.
- There should be no pre transform settings checked.
- Black point correction is set to Auto.
- White point adaption set to off.
- Select "Send LUT to DAVIO" (Plasma lut name).
- Type Davio IP address into pop-up window.

STEP 5: SETUP DAVIO for Calibrated Operation

- If a preset for calibrated has been set then select preset (F2). If not setup as follows:
- Press the up button twice to get to top menu.
- Press right button until the display shows "System".
- Press down button once to enter the system menu.
- Press right until you see "Colour Space".
- Use the + - buttons to change Colour Space to YCbCr SMPTE.
- Press the up button twice to get to top menu.
- Press the left button to page to SDI Out 1
- Press the down button to enter SDI out 1 menus.
- Use the + - buttons to set SDI Out 1 to 3D LUT 1
- Press the up button twice to get to top menu.
- Press the left button to page to 3D LUT 1
- Press the down button to enter 3D LUT 1 menus.
- Use the + - buttons to set 3D LUT 1 to (Plasma lut name)
- Press and hold F2. This will be the saved calibrated setup.

NOTE: These settings are for SMPTE range data 64-960. If you have data values below 64 (super black) the DAVIO will truncate those data values. If your workflow requires full range data (4-1019) use the full range mode in DAVIO before profiling your plasma display.