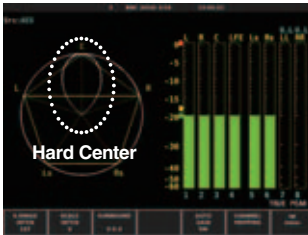


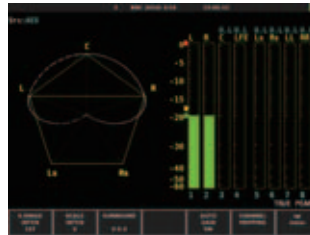
Surround Display (5 LEAF)

Hard Center Display

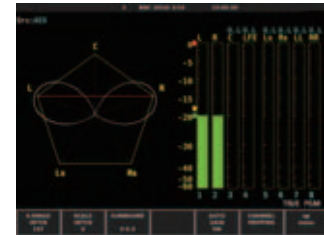


When the difference between the levels of the L and R channels is small and the channels are in phase, the LV 7800 computes and displays the phantom center between the two channels.

Phantom Center Display



When the L and R channels are out of phase, line segment LR is red. Because the channels are out of phase, there is no phantom center.



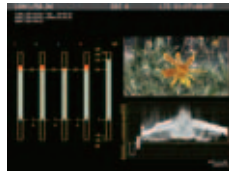
When input is received for the L, R, C, Ls, and Rs channels, an independent hard center is displayed.

Overview of the 5 Bar Display

5 Bar Display Enables the Simultaneous Observation of Digital Broadcasts and Composite Levels

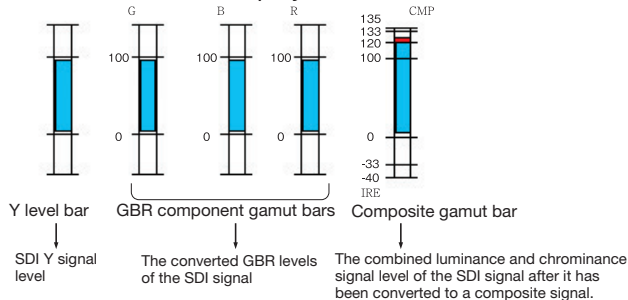
In the 5 bar display, video signal peak levels can be displayed instead of vectors. Five different bars are used to simultaneously display five different levels: luminance (Y), green (G), blue (B), red (R), and composite (COMP). The 5 bar display functions as a mode of the vector display. It is viewable as an alternate display under the vectorscope menu.

The G, B, R, and COMP bars are converted from the SDI Y, C_B, and C_R signals using matrix calculation.

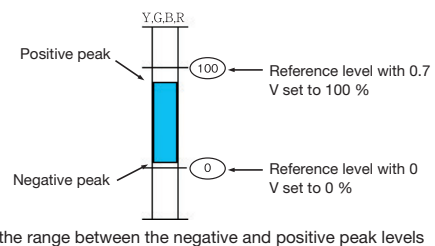


Bar Display Details

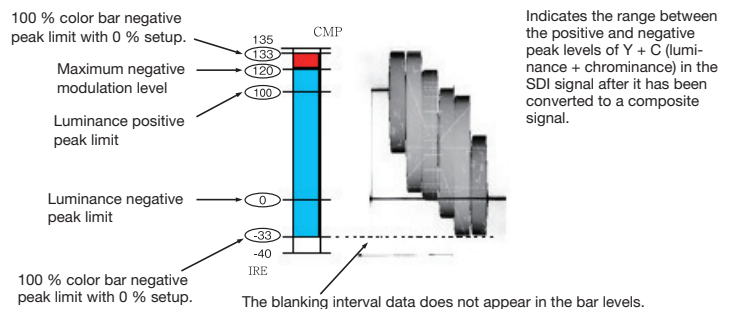
Contents of the 5 Bar Display



Contents of the Component Bar Display



Contents of the Composite Bar Display



Overview of the SDI-EXT REF Phase Difference Display

SDI-EXT REF Phase Difference Display

Overview

The SDI-EXT REF phase difference display shows the phase differences between an SDI signal and an external sync signal (EXT REF).

Features

Graphic and Numeric Displays of SDI and External Sync Signal (EXT REF) Phase Differences

Traditionally, the most common SDI phase adjustment method was to determine the phase difference by switching between an internal and external sync signal and observing the waveform shift. However,

you can view phase differences and adjust phases more easily by using the SDI-EXT REF phase difference display.

Relative SDI Signal Phase Differences Are Displayable

By setting a particular SDI-EXT REF phase difference to zero, you can display relative SDI signal phase differences.

Store Up to Eight Different Phase Differences

You can store up to eight different phase differences. This allows you to store up to eight different switcher SDI signal phases.

SDI-EXT REF Phase Difference Display

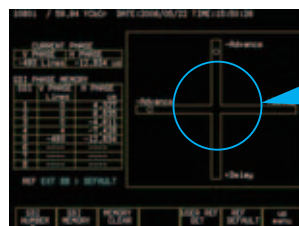
● A feature that shows the phase differences between SDI and external sync (EXT REF) signals.

Numeric Display

The current phase differences between the applied SDI and EXT REF signals are indicated numerically under CURRENT PHASE.

Phase Difference Log

You can store up to eight sets of measured values. This is useful in cases such as when you use a device such as a switcher to change inputs and match phases.



Graphic Center

The V marker turns from white to green when it is in the center. The H marker turns from white to green when it is within ± 3 clocks of the center.

● You can readily determine the phase difference between an SDI and external sync (EXT REF) signal through graphic and numeric phase difference representations. You can also determine the phase differences between different SDI signals by setting the difference for one signal to zero.

● You can record up to eight phase differences. You can quickly determine the phase differences between multiple inputs.

CINELITE

A feature that allows you to put the cross bars on any location of the picture display and view the luminance, RGB levels, and relative exposure at that point.

■ F-Stop Display Mode (relative exposure)

You can easily and accurately measure exposure values directly from the camera signal. This feature is fundamentally different from conventional spot measurement. It is especially useful for making lighting arrangements when filming.

F-stop display based on the active measured position and the 18% reference set

Active Measured

Reference position

F-stop value display based on the reference position and the 18% reference set

F-stop value display based on the difference between the reference position and the active measured position

| | | | | | |
|--------|---------|---------|---------|--------|---------|
| F.S | REF_POS | REF_POS | 18% | GRIPPA | ID #RTU |
| SAMPLE | ON | SET | REF_SET | 0.45 | |

■ RGB 255 Display

R: 219 G: 83 B: 89

■ RGB % Display Mode

R: 86.2% G: 32.9% B: 35.3%

■ LUMINANCE % Display Mode

44.4%

CINEZONE

You can achieve a flawless picture when filming. This feature is especially useful for making lighting arrangements. You can easily and accurately confirm dark areas with approximately 5% luminance, areas with approximately 45% of the luminance of the film subject, and bright areas with luminances of 80% or more.

■ CINEZONE Display

CINEZONE UPPER% LOWER% ON 99.0 5.0

■ Normal Display

CINEZONE OFF

CINE SEARCH

Displays a specified luminance level $\pm 0.5\%$ using green on an otherwise monochrome picture display.

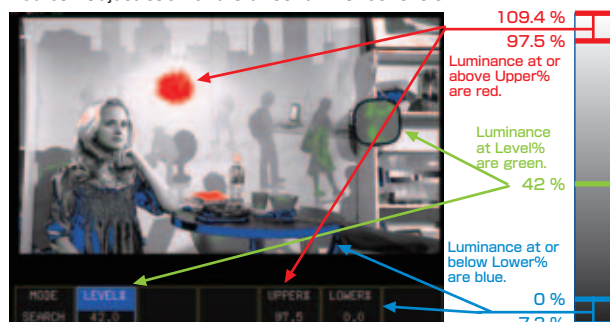
Luminance Search Feature



Searching for luminance levels is incredibly easy.

Luminance Search Feature (1)

You can adjust each of the three luminance levels.



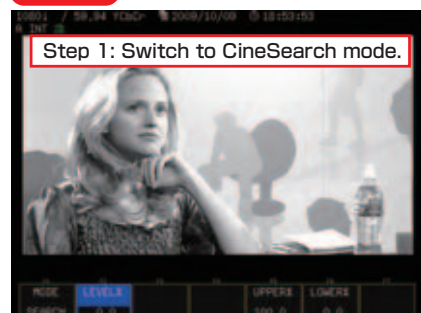
Luminance Search Feature (2)

You can adjust each of the three luminance levels.

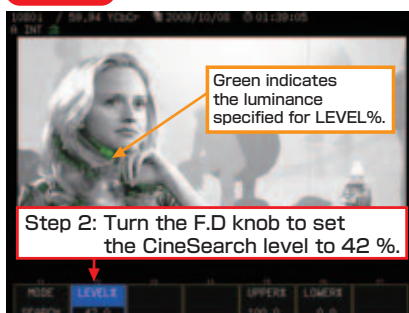


Adjusting the Luminance Level during Filming

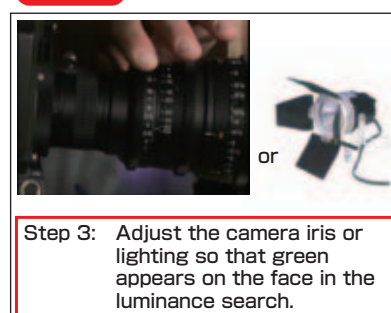
STEP 1



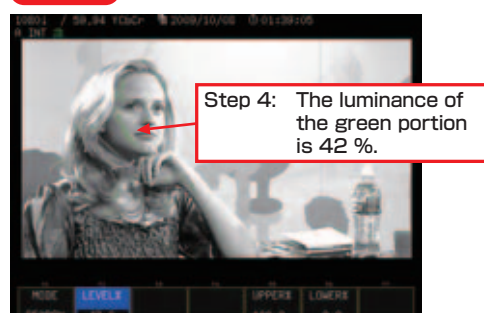
STEP 2



STEP 3



STEP 4



Change Search level



In this manner, you can use CineSearch to easily adjust the luminance. This would not be possible on a picture or waveform monitor.