DVDO EDGE Owner's Manual Supplement

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This document provides additional information for the DVDO EDGE configured with the latest firmware:

Version 1.5 (Build 127)

NEW FEATURES

1. Y/C Delay

Sometimes there is a delay between the luma and the chroma component of the video signal which causes color "smearing". EDGE can compensate for this problem in the source signal by shifting the phase of luma with respect to chroma. The default setting is 0.

This new slider bar control is available in the Picture Controls menu.

Main Menu > Picture Controls > Y/C Delay

2. CUE Correction

This feature removes chroma upsampling errors (CUE) found in video sources which have errors in color decoding caused by some older MPEG decoders.

This control is available in the Picture Controls menu.

Main Menu > Picture Controls > CUE Correction

a. Off - No chroma filtering. Use this setting if the source does not have a CUE problem.

b. On - Chroma filtering is always on. Use this setting if the source has a CUE problem.

c. Auto (default) - Automatic chroma error detection and correction (AutoCUE-C™). This is a unique VRS technology that automatically detects and removes chroma errors.

3. Menu Timeout

The OSD menu timeout determines the time (in seconds) it takes for EDGE to close the OSD menu after no action has been performed. The user can now control the duration of the timeout.

This control is available in the Settings menu.

> Main Menu > Settings > Menu Timeout

- 40 sec. (default)   On-screen menu times out after 40 seconds.
- 160 sec.   On-screen menu times out after 160 seconds.
- Off   On-screen menu never times out.

4. Border Level

A border is created when the active aspect ratio of the input does not match the display aspect ratio or when output image area is less than display area (underscan).   For example, if the active aspect ratio is 4:3 and the display aspect ratio is 16:9, EDGE creates a left and right border on the resulting image. The border level can now be adjusted from 0 IRE (black) to 100 IRE (white) with a slider bar control.
The default setting is 0 IRE.

This control is available in the Output Setup menu.

> Main Menu > Settings > Advanced Controls > Border Level

5. Input Color Space

This control enables the user to override the color space information that is obtained from the HDMI source and use the color space specified by the user instead.

This new control is available in the Advanced Controls menu.

> Main Menu > Settings > Advanced Controls > Input Color Space

The menu selection is as follows

- Auto (default)
- RGB
- YCbCr 422
- YCbCr 444

6. Input Colorimetry

This control enables the user to override the colorimetry information that is obtained from the HDMI source and use the colorimetry specified by the user instead.

This new control is available in the Advanced Controls menu.

> Main Menu > Settings > Advanced Controls > Input Colorimetry

The menu selection is as follows

- Auto (default)
- ITU BT.601
- ITU BT.709

7. Output HDCP Mode

HDMI displays or other devices (such as HDMI splitters, AV Receivers) may have different HDCP implementations. This control allows the user to disable HDCP on the output signal if the current input signal is not copy protected.

This control is available in the Advanced Controls menu.

> Main Menu > Settings > Advanced Controls > Output HDCP Mode

Auto	HDCP content protection is applied to the EDGE output only if the input signal is protected
On	HDCP content protection is always applied to the EDGE output

Note: This feature only applies to HDCP devices connected to EDGE's output.

8. Input HDCP Mode

The Input HDCP Mode control is added to accommodate the large number of HDMI devices that connect to the EDGE's inputs.

This control is available in the Advanced Controls menu.

> Main Menu > Settings > Advanced Controls > Input HDCP Mode

On	EDGE sets its input as HDCP capable. Sources can send content protected audio/video signals to the input.

Off   EDGE turns off HDCP on its input. This feature speeds up the EDGE's ability to lock onto an input signal when HDCP is not needed or used.

9. *Support for Audio only optical and coax sources*

This feature is for users who have digital audio only (coax and optical) source (i.e. no video source) and want to use it with EDGE. Previously EDGE goes into standby mode when there is no video input (auto standby-on). Now EDGE detects the presence of digital audio (coax and optical) inputs in addition to video inputs.

To use this feature
  a)   Select an unused video input
  b)   Assign the audio input that is connected to the audio only source using the on-screen menu.

     Main Menu > Settings > Audio Settings > Select Audio Input

  c)   Selecting the unused video input effectively selects the audio input.

This feature is independent of the output and works with all three of EDGE's audio outputs (HDMI Video, HDMI Audio and Optical).

10. *New Safe Mode options*

Safe Mode temporarily suspends features that can cause loss of picture. The features that are suspended include 1:1 Frame Rate, Deep Color, and Output Format selection. Safe Mode is entered and exited by pressing the Guide button on the EDGE remote.   In previous firmware, the Output Format selection would default to Auto when Safe Mode was entered. The new option gives the user to select the output format used for Safe Mode. In addition to Auto, users can select 480p, 576p, or VGA.

To change the default format for Safe Mode, first put EDGE into standby (power down button), then use one of the following button sequences:

     For Auto: press OK 6100 OK
     For 480p: press OK 6103 OK
     For 576p: press OK 6104 OK
     For VGA: press OK 6114 OK

16X Zoom
Zooming range is increased to 16x the input image size. This is useful in cases where EDGE is used to scale an image instead of a PC. For example, when viewing internet content, instead of using a PC in 'full-screen' mode, EDGE is used to scale the native

image (in a PC window) to fill the display area. This is beneficial in two ways: 1) the PC does not have to process video for a large display, resulting in better performance. 2) EDGE's high quality scaler typically results in significantly better picture quality.