

# WVR6100 and WVR7100 Waveform Rasterizer Release Notes

This document describes known issues with the WVR6100 and WVR7100 Waveform Rasterizer (Software Version 1.2.0).

## Known Issues and Behaviors

**Web Browser** The Web browser applet will not resize when running in some versions of the Netscape browser *and* in some non-Windows Operating Systems (for example, Solaris).

**SDI Video Session** Under certain conditions, an SDI video session reports ANC data present if Embedded Audio or EDH are present.

**Sweep MAG** When in two-line mode, waveform displays of SD or composite inputs will display invalid information at the left and/or right side of screen (beginning and/or end of sweep) when Sweep MAG is on. HD formats are unaffected.

**Screen Captures** Under certain conditions, a screen capture from the Web Browser results in a misplaced line at the end of the frame.

MEASURE SELECT: PICT  
DISPLAY: FULL  
SDI Input Format: 1080i 59.94  
Picture Frame On (in pop-up menu)  
Issue: Executing a screen capture from the Web Browser results in a misplaced line in the full-frame picture.

**Audio Status** There are three issues related to Audio status:

1. Audio status clip values can vary between different Waveform Rasterizer units.
2. Sometimes changing the Video-to-Audio map setting to Embedded does not update the input status line in the audio display. Switching to a different audio input and then switching back updates the audio display to reflect that mapping is set to Embedded.



**Ext. Reference**

There are several issues related to operation when using an external reference:

1. Sometimes loss of the External Reference signal does not make the resulting loss of lock obvious. For example, for a 525 input with NTSC ref and EXT REF selected, removing the external reference signal leaves the waveform stable but shifted on screen.

Note that the SDI Input Readout can be used to determine whether the waveform is locked or not.

2. When in SDI mode, but with no SDI input signal present, the screen displays Ref: Ext Unlocked event though a valid External Reference signal is connected.
3. The following External Reference signal formats are not fully supported when in line select mode or in Sweep MAG mode. Although not supported, these formats may be somewhat functional and are not locked out.
  - NTSC and PAL with tri-level input
  - 720p 23.98, 1080sf 29.97, 720p 24, 1080sf 30, 720p 25, and 1080sf 25
4. With some combinations of SDI input and External Reference formats, the sweep stops prematurely when Sweep MAG is on in one-line mode. To work around this limitation, turn off EXT REF to make the measurement.

**Display Distortion**

The rasterizer does not show the correct aspect-ratio in the audio phase display under the following conditions:

- The rasterizer is using 16X9 VGA monitor
- Audio Display is selected and set to display the Phase as a Lissajous pattern

Under these conditions, the X-Y Lissajous axes of the Lissajous display are not 90 degrees apart and the Lissajous waveform is stretched somewhat horizontally.

**Quick Start User Manual**

Step 9 of the *Incoming Inspection* procedure verifies for a pulse-width reading “Vsync rate : Width = 63  $\mu$ s.” The verification should be for a reading “Vsync rate : Width = 62.5  $\mu$ s.”

**WVRRFP**

A 100 ft. cable, Tektronix part number 012-1682-00, is available for use with the WVR RFP (remote front panel).

**Dolby Bar Labels**

Depending on the current state of the input, surround channels may be indicated by numbers 1-10, rather than by labels L, R, C, and so on. For example, for a 5.1 surround input in EX listening mode and with a Dolby downmix mode selected, all the numbers correlate as follows:

Channel Label <sup>1</sup>	L	R	C	Ls	Rs	Lfe	Lb	Rb	L <sub>[ot]M</sub> <sup>2</sup>	R <sub>[ot]M</sub> <sup>3</sup>
Bar Number	1	2	3	4	5	6	7	8	9	0 (10)

- <sup>1</sup> Channels and labels can vary with Dolby D Listening Mode set for the rasterizer or the Dolby E Program Configuration detected by the rasterizer. See the tables at the end of the chapter *Monitoring Dolby-Based Surround Sound* in the *WVR6100 and WVR7100 Quick Start User Manual*.
- <sup>2</sup> Downmix values may be Lo (Left only), Li (Left total), or M (Mono), depending on the downmix selected.
- <sup>3</sup> Downmix values may be Ro (Right only), Rt (Right total), or M (Mono), depending on the Dolby Downmix Mode setting selected.

The channels, if present in the AUDIO display, allow the Channel Labels to be present in both the audio Input/Output maps in the CONFIG menu and in the audio session. If channels are not present (input shifts from 5.1 to Stereo or downmixes are turned off), the affected bars numbers appear in the session and maps, replacing the Channel Labels. In the alarm status and error log, bar numbers are always shown regardless of the input format.

**Option DDE**

There are several issues that apply to Dolby operation on rasterizers with Option DDE installed:

1. In the AUDIO display, with a Dolby Digital input and a nonexistent stream selected, the downmix level bars continues to display levels instead of going to Mute status. The other bars go to Mute status as expected.
2. In the Dolby Audio Status display (STATUS pane), two Dynamic Range Parameters indicate 0dB levels differently:
  - Line Mode Compression reads “None.”
  - RF Mode Compression reads “0 dB.”
3. For listening modes selections other than FULL or EX, clipping may occur. For example, if the Dolby Digital input is 3/2 with full-scale test tones and Stereo listening mode is selected, clipping will likely occur. To avoid clipping, choose either of the compression modes Dialnorm+Line or Dialnorm+RF in the CONFIG menu Audio Input/Outputs > Dolby D (AC-3) Setup > Dialnorm&DynRng.

4. When in Channel Mode 2/2 and Phantom Listening Mode, the Surround Sound display (AUDIO tile) shows the Ls and Rs levels attenuated by 3 dB. They should display at full amplitude for this channel mode/listening mode combination.
5. When in Channel Mode 3/0 and 3-Stereo Listening Mode, the Surround Sound display (AUDIO tile) shows the C level attenuated by 3 dB. It should display at full amplitude for this channel mode/listening mode combination.
6. When applying signal with PCM audio to an AES input, 48 kHz audio will not pass through the rasterizer Dolby decoder. 96 kHz audio will pass through to the downmix, but not to the main audio outputs. 192 kHz will silence all of the outputs.

### **Incompatible Operation**

When applying SD or HD signals to any rasterizer that does not support them, the unit will indicate that the signal input is not standard. Applying unsupported video signals may result in a frozen PICT display.

### **Display Select and Freeze Interactions**

Switching between four-tile and a FULL display mode can cause display anomalies when the display is Frozen. For example, PICT displays may not display closed caption data, picture borders, and menus after switching display modes. Frozen AUDIO and STATUS tiles may also have anomalies when switching display mode. To work around this issue, Freeze displays in the display mode that you want to observe them.

### **Field Installs of Dolby Options**

When updating a rasterizer with Option DD or Option DDE, the Dolby input entries may not appear in the Audio popup menu until you cycle power. Therefore, after installing the Option, and powering up and updating the Option Key, be sure to cycle power once more to ensure the menu items appear.

### **SNMP Messages**

There are some SNMP-related issues:

1. The instdID OID is currently a read-only OID and, if set, returns a GEN\_ERROR message.
2. Commands returning the audCurOutput OID return the string “Embed 7 & 8” for embedded audio channel pairs 9 & 10, 11 & 12, 13 & 14, and 15 & 16.

**Option DS** In the Audio Inputs/Outputs CONFIG menu, the Video to Audio Map submenus for SDI A, SDI B, Cmpst A, and Cmpst B include the Analog A and Analog B choices. Since the Option DS is a digital-audio-only option, the Analog entries included do not function for Rasterizers with the DS option.

