

**WVR4000 and WVR5000  
Waveform Rasterizers  
Release Notes**

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077-2451-02

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# Release Notes

This document supports software version 2.0.X of the WVR4000 and WVR5000 Waveform Rasterizers.

## Undocumented Features

If you want to clear the last saved preset and restore factory preset at boot-up, do the following. First, remove power from the unit. Next, apply power and press the power button. Wait for the MAG button light to go out, then press and release the MAG button once. This causes the power-on preset to be returned to the factory preset. Once boot-up is complete and normal operation is restored, press and hold the power button to save the current state as the latest preset.

## Known Issues and Behaviors

The following pages describe known issues and behaviors of the waveform rasterizers. Topics are listed in alphabetical order.

### Audio Display

The Lissajous display may show no data at power on if the AGC is disabled. Enable the AGC to correct this condition. You can do this from the CONFIG > Digital Audio Displays > Lissajous AGC menu.

### Display Distortion

The audio phase display is optimized for a 4 x 3 monitor. When an external 16 x 9 XGA monitor is used, the X-Y axes of the audio phase display are not 90 degrees apart and the waveform is stretched somewhat horizontally.

- External Reference**
- When the instrument is in the EXT REF mode, the display may appear stable after the external reference is lost, but some displays may be altered. When using this mode, verify that the status bar does not indicate a “loss of lock”.
  - Note that the SDI Input Readout can be used to determine if the waveform is locked.
  - When in SDI mode, but with no SDI input signal present, the screen displays Ref: Ext Unlocked even though a valid External Reference signal is connected.
  - The following External Reference signal formats are not fully supported when in line select mode or in Sweep MAG mode. Although not supported, the following formats may be somewhat functional and are not locked out: NTSC and PAL with tri-level input, and 720p 23.98, 1080sf 29.97, 720p 24, 1080sf 30, 720p 25, and 1080sf 25.
  - 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.

- Freeze**
- The picture may have errors if you turn the Picture frame to OFF on a frozen picture. To avoid these errors, turn the picture frame off before freezing the image.
  - Delete frozen images using the display pop-up menu from which you froze them. For example, if you freeze a Picture display and then want to delete the frozen image, do so from the Picture pop-up menu.

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

**Line Select** When the Split Diamond display is active, the Line Select readout may not display correctly when you switch between SDI A and SDI B inputs. If this happens, toggle Line Select off and on to restore the readout.

**Preset Import** When importing presets from a Tektronix waveform monitor other than a WFM4000 or WFM5000, the default display will be the Waveform Display screen if the imported preset calls for features not in the WFM4000 or WFM5000 instrument.

**Sweep** The waveform style must be set to Overlay to get 2 line or 2 field sweep.

- Sweep MAG** When in 2 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.
- Thumbnail** When switching between the SDI A and SDI B inputs while the Thumbnail and Line Select modes are enabled, two line select cursors might be displayed on the Thumbnail Display. To correct this, toggle the Line Select off and back on.
- USB**
- Always use the “Unmount USB” menu function to safely remove the USB memory device from the USB port. Failure to do so may result in permanent loss of any files saved on the USB device.
  - If there are more than 32 files saved in a Presets directory on the USB, you can only view the first 32 files.