Release Notes

The following notes apply to all WFM6100, WFM7000 and WFM7100 Waveform Monitors with Option FP installed. Some notes only apply to Option FP instruments that also have the specified option. See the *WFM6100, WFM7000 and WFM7100 Waveform Monitors With Option FP Quick Start User Manual* or visit www.Tektronix.com for other information about instrument operation.

Known Issues and Behaviors

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

Audio Errors
- Audio DSP heartbeat errors may be reported sporadically in the diagnostics log. The audio monitoring features are not impacted by this behavior. The instrument does not require any repair if this error is reported sporadically.

- When the Audio display is active and the audio input is changed, the displayed audio scale may not update automatically. Press the FULL button to toggle the display and update the audio scale.

*NOTE. See **SIM Mode** for audio issues related to SIM mode operation.*

AV Delay   AV Delay is designed to support digital video only, and not analog video.

Bowtie Display   Bowtie is not available when using composite video inputs.

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Capture and Freeze
- Capture Buffer is designed to capture digital video only, and not analog video.

- You can select Capture Buffer while monitoring a composite video input, but there will be no effect because the Capture Buffer mode does not apply to composite analog signals. Use the Capture Freeze mode when monitoring composite analog signals.

- Capture Buffer is designed to capture single link signals and does not apply to dual link signals.

- Short duration trigger events are captured, but "frozen" status displays such as video session may not update in time to reflect the event.

- Once data is captured in buffer mode, Line 1 in Frame 1 in 525 SD and Line 311 in Frame 2 in 625 SD displays incorrectly. This does not affect Picture or physical layer displays. This only applies to the display of capture data: live data is not affected.

- Captured format must match input. When viewing capture buffer data, ensure a signal with the same format is on the selected input.

- Capture mode works when at least one tile is one of the following: waveform, vector, gamut, or picture.

- Use Freeze instead of Buffer to capture physical layer characteristics.

- If the instrument is restarted while buffer mode is enabled, the instrument will capture automatically on start-up.

- Selecting to delete the capture buffer from the Web UI does not delete the capture buffer.

- Manipulating Capture data (such as changing display types or changing to full screen) can introduce spurious errors in the captured status and session screens.

- If the instrument is in simultaneous input mode and one of the signals is missing when a Capture is taken, further Freeze/Capture functions are locked until the signal is reconnected and the system is rebooted.

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.

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. 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 bar 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.

Dolby Operation With Option DDE

- In the AUDIO display, with a Dolby Digital input and a nonexistent stream selected, the downmix level bars continue to display levels instead of going to Mute status. The other bars go to Mute status as expected.

- For listening mode 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 compression mode, Dialnorm+Line or Dialnorm+RF, in CONFIG > Audio Input/Outputs > Dolby D (AC-3) Setup > Dialnorm&DynRng.

- 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.

- 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.

- The Dolby E/Dolby Digital decoder will pass through PCM audio at 48 kHz frequencies or less. Audio frequencies above this will not pass through and may cause noise or distortion on both the bars and the audio outputs. If PCM audio at frequencies greater than 48 kHz is used, choose either AES A or B as the input source.

Dual Link Mode

- The WFM7000 and WFM7100 were not designed to support the monitoring of dual link inputs. If the user applies a dual link 2k signal to one of these instruments (with software 3.0.4) and forces the input format to anything other than 720p-60, the unit may reboot.

- For 50p, 59.94p, and 60p formats, audio phase display is not displayed if there are two or more trace displays in other tiles.

- ANC data display reports the incorrect line number for 50p, 59.94p, and 60p formats.

- Capture Buffer mode does not apply to dual link signals.

- SDI PixMon out is intended for viewing Picture information only. In Dual link, PixMon out provides a "combined" picture and the ANC and embedded audio data may be missing.

External Reference

- Sometimes loss of the External Reference signal does not make the resulting loss of lock obvious. For example, if a 525 input has EXT REF selected and configured to lock to an NTSC reference, removing the external reference signal leaves the waveform stable, but shifted on the screen.

- 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.

Field Installs of Dolby Options

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

*NOTE. See **Dolby Operation With Option DDE** for Dolby and Option DDE related issues.*

Incompatible Operation

When applying SD or HD signals to any monitor 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.

Option EYE and PHY Eye Amplitude Calibration

When initiating Eye Amplitude Calibration, a waveform display will not be visible. To get a waveform display, temporarily connect a 525/270 SDI signal in place of the calibration signal and press the SEL button once to end the calibration and then once again to restart it. The waveform should then appear. Once it is displayed, disconnect the 525/270 SDI signal and reconnect the original calibration signal.

Print

You can print the error log for single input mode, but not simultaneous input mode.

SDI Video Session

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

SDI Status Display	When the input signal is missing, the Cable Length meter, the Cable Length readout, and the Cable Loss readout on the SDI Status display indicate zero. Use the Input Status on the Status Bar for the actual signal state.

Simultaneous Input Mode (Option SIM)

- For Analog Output Mapping and AES Output Mapping settings while in simultaneous input mode, go to CONFIG > Audio Inputs/Outputs > Dual Audio > Audio Inputs.

- The phase pair selected as an audio source is for the channel of the phase pair you changed last.

- External Reference reports unlocked if no SDI A signal is on Channel 1.

- Selecting AES B as a source when it is an output causes a blank tile.

- Phase pair and headphone selections for downmix are in red text and are labeled 9–10 instead of Lt-Rt.

- When in simultaneous input mode, set audio inputs in CONFIG > Audio Inputs/Outputs > Dual Audio > Audio Inputs.

- Only single input logs can be printed.

SNMP Messages

- 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.

- The MIB contains the command dolbyPgmAvg, but the command name does not indicate that the OID is for loudness.

- The MIB contains the dolbyPgmCurLoudness command. However, it does not contain a command for program session loudness.

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.

USB If there are more than 32 files saved in a Capture or Presets directory on the USB, you can only view the first 32 files.

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).

- Use Java Runtime Engine (JRE) version 1.6; otherwise, issue may occur.

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