

WFM2200
SD/HD/3G SDI Waveform Monitor & Generator
Release Notes

This document supports software version 1.0.x.

www.tektronix.com



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Release notes

This document describes the key features and known limitations of software version 1.0.x of the Tektronix WFM2200 SD/HD/3G SDI Waveform Monitor and Generator.

Some of these notes apply only to instruments with specific options installed. A list of available instrument options is available at www.tektronix.com.

Key features and benefits

The WFM2200 waveform monitor with software version 1.0.x has the following features:

Battery-operated portability

- Portable, handheld form factor is ideal for field production setup and troubleshooting
- Operates using the supplied AC adapter or the supplied Lithium-Ion, internal and replaceable battery pack
- Optional accessories include the WFM220BC External Battery Charger, the WFM200BA Rechargeable Battery Pack, and the WFM200FSC Soft Carrying Case

Two SDI inputs with multiformat and multistandard support

- Comes standard with auto-detection of HD/SD-SDI and multiple Dual Link video formats (including RGB and XYZ color space support)
- Can be upgraded to include 3G-SDI (Level A and Level B) format support with the purchase of an option key (Option 3G required)

Video and audio signal generation

- Generates SD/HD/3G SDI color bar and pathological signals for troubleshooting signal paths and equipment (Option 3G is required for 3G-SDI test signal generation)
- Generates AES audio test tones for embedded and AES output

Audio monitoring

- Monitors up to 16 channels of embedded AES/EBU audio
- Comes standard with an independent AES input and output for audio facility testing
- Comes standard with simultaneous monitoring support including a Multichannel Surround Sound ¹ display and flexible Lissajous display

¹ Audio Surround Sound Display licensed from Radio Technische Werksütten GmbH and Co. KG (RTW).

Color gamut compliance monitoring

- Comes standard with the Tektronix-patented Diamond and Arrowhead displays for color gamut compliance monitoring

Comprehensive data monitoring helps to quickly resolve difficult content quality and reliability issues (Option DATA)

- Provides simultaneous CEA708/608 Closed Caption monitoring; Teletext and OP47 subtitle monitoring
- Detects and decodes ANC data including AFD, WSS, Video Index, TSID, V-Chip, Broadcast Flag/CGMS-A, VITC, LTC, and ANC TC
- Includes ARIB STD-B35/B37/B39, TR-B22, and TR-B23 support
- Includes the ANC Data Inspector and SDI Data Analysis display to help troubleshoot ANC data and SDI data problems

Variety of monitoring displays

- Includes the Tektronix-patented Timing and Lightning displays to make facility and interchannel timing easy
- Includes a waveform display of the external reference (Black Burst or Tri-Level Sync) and LTC signals which allows for a quick diagnosis of potential issues in the video sync and timing distribution system
- Includes extensive alarms, status reporting, and error logging for 10,000 events to simplify error correction tasks
- Includes voltage and timing cursors to allow for precise signal measurements
- Includes user definable Safe Area graticules and an AFD graticule to facilitate editing and format conversion tasks

Unmatched display versatility

- Includes a flexible quad-tile display to provide four concurrent views of a monitored signal (with a maximum of two trace displays at once); also provides the flexibility to configure each of the four display tiles independently, enabling you to increase productivity
- Includes a full screen mode that maximizes display size for precise adjustments
- Displays a thumbnail picture for content verification

Unmatched usability

- Includes 32 instrument presets for quick recall of commonly used configurations tailored to colorists, editors, or operators
- Includes a USB port for easy transfer of presets, screen shots, and error logs
- Includes an internal speaker and headphone port for easy monitoring of audio channels
- Provides an intuitive menu structure and context sensitive help

- Includes a high-brightness display with crisp, high-resolution LED backlight, ideal for indoor and outdoor usage
- Includes SNMP and Ethernet remote interface capabilities to facilitate centralized monitoring and control
- The super lightweight and low power consumption design supports portable, battery powered applications

General limitations

This release has the following general limitations. Topics are listed in alphabetical order.

Audio outputs

- High headphone volume levels can cause clipping with high audio level programs. To prevent possible ear damage, it is recommended to lower the volume before connecting headphones to the instrument.
- Test tone generation from AES output will be muted for a moment when the input video channel is switched or input video signal is connected/disconnected.
- When the instrument is powered on or comes out of Standby mode with the audio input configured for embedded audio, the channel 1 audio signal will be assigned to both the left and right outputs on the speaker and headphone.

Toggle the video input selection or change the audio input selection to assign the channel 1 and channel 2 audio signals to the left and right outputs on the speaker and headphone, respectively.

USB

- Always press the MAIN button and select USB Status > Unmount before you remove the USB memory device from the USB port. You risk permanent loss of any files saved on the USB device if you do not use the “Unmount” feature.
- It is recommended that you use a well known brand to prevent a slow instrument boot-up and/or response.

Web browser

- We recommend using Java Runtime Engine (JRE) version 1.6 or above.