WFM5200
Waveform Monitor

Release Notes

www.tektronix.com

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Release Notes

This document describes the key features and known limitations of software version 1.2.x of the WFM5200 Waveform Monitors. 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 all-in-one WFM5200 platform with software version 1.2.x has the following features:

Four SDI Inputs with Multi-format, Multi-standard Support.

- Comes standard with auto-detection of HD/SD-SDI and multiple Dual Link video formats (including RGB and XYZ color space support).
- Multiple Input Mode allows monitoring of up to four SDI inputs simultaneously for multiple camera monitoring applications (Option CAM required).
- Upgradeable to include 3G-SDI (Level A and Level B) format support with the purchase of an upgrade key (Option 3G required).
- 16-channel embedded AES/EBU audio simultaneous monitoring support with Multichannel Surround Sound [1] display and flexible Lissajous display (Option AUD required).
- Audio Loudness monitoring to ITU-R BS.1770-1/1771, EBU R 128, and ATSC A/85 recommendations (Option LOUD and Option AUD required)

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

Tektronix-patented Diamond and Arrowhead Displays for Color Gamut Compliance Monitoring.

New Tektronix-patented Spearhead Display and Luma Qualified Vector (LQV™) Display Facilitate Precise Color Adjustment for Post Production Applications (Option PROD).

Comprehensive Data Monitoring (Option DATA) helps to Quickly Resolve Difficult Content Quality and Reliability Issues.

- Simultaneous CEA708/608 Closed Caption monitoring; Teletext and OP47 subtitle monitoring.
- Detect and decode ANC data including AFD, WSS, Video Index, TSID, V-Chip, Broadcast Flag/CGMS-A, VITC, LTC, and ANC TC.

- ARIB STD-B35/B37/B39, TR-B22, and TR-B23 support.
- ANC Data Inspector and SDI Data Analysis display helps troubleshoot ANC data and SDI data problems.

Simple 3G/HD/SD Color Bar and Pathological Signal Generator (Option GEN) for Troubleshooting Signal Paths and Equipment (Note: Option 3G is required for 3G-SDI test signal generation).

Variety of Monitoring Displays.

- Tektronix-patented Timing and Lightning displays makes facility and inter-channel timing easy.
- Waveform display of external reference (Black Burst or Tri-Level Sync).
- Black Picture and Tektronix-patented Frozen Picture Detection.
- Extensive alarms, status reporting, and error logging for 10,000 events simplifies error correction tasks.
- Voltage and Timing Cursor for precise measurement.
- User-definable Safe Area Graticules and AFD Graticule facilitate editing and format conversion tasks.

Unmatched Display Versatility.

- Flexible Quad Tile display provides four concurrent views of a monitored signal (with a maximum of two trace displays at once). The instrument also provides the flexibility to configure each of the four display tiles independently, enabling you to quickly check the integrity of a signal.
- TandemVu® Display for efficient camera adjustments of luma and chroma.
- Full Screen mode that maximizes display size for precise adjustments.

Unmatched Usability.

- 32 instrument presets for quick recall of commonly used configurations tailored to colorists, editors, or operators.
- Front-panel USB port enables easy transfer of presets and error log.
- Front-panel headphone port for easy monitoring of audio channels.
- Intuitive menu structure and context-sensitive help.
- Extensive alarms, status reporting, and error logging.
- High-brightness display with crisp, high-resolution LED backlight, ideal for indoor and outdoor usage.
- SNMP and Ethernet remote interface capabilities and GPI control facilitate centralized monitoring and control.

- DVI-I external display output for easy connection to digital or analog XGA display.
- Super lightweight and low power consumption design for portable, battery-powered applications.
- 3RU height, half-rack width, short-depth (5.5 in. or 14 cm) instrument, ideal for space-constrained environments.
- 4-pin XLR DC power input with AC Power adapter for both AC/DC operation.

General Limitations

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

Incompatible Operation

When applying 3 Gb/s signals to any instrument that does not support the signal formats, the unit indicates that the signal input is not standard. Applying unsupported video signals may result in a frozen PICT display.

Sweep

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

USB

- Always press the MAIN button and select USB Status to safely "Unmount" and 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.
- If there are more than 32 files saved in a Presets directory on the USB device, you can only view the first 32 files.

Waveform Mode Cursor for XYZ Color Space

The voltage cursors are given in millivolt scale, but the XYZ color space is referenced in hex scale. To see the values for 000 to FFF, change the graticule settings to max and percent.

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