Firmware Release Note

Equipment : RWC2010M, Digital Radio Tester

Revision History

Version	Date	Description
Version 1.042	10 July.2025	1. The UDP Event Port number has been changed to 52019.
Version 1.041	24 June.2025	1. Added dBu to the Audio Analyzer's measurement parameters.
Version 1.040	05 May.2025	1. In FM stereo mode, the FM deviation value of the CW tone was set to the value obtained by subtracting the pilot signal energy from the set value, but the FM deviation value of the CW tone has been improved to maintain the set value. 2. Changing the sampling frequency has improved the problem of sound quality deterioration due to a sampling frequency mismatch when transmitting Wave files in FM mode. 3. Added External Audio input function to FM/AM. This function modulates and transmits audio input through the audio input AUX port on the rear panel to FM or AM in real-time. 4. There was an issue where the remote control would occasionally stop working when using the UART port. It has been resolved. 5. There was a problem where the length information of the label variable was not saved when saving and recalling settings, so the label was not transmitted properly. 6. The AM band's lowest frequency was changed from 150 to 149 kHz. 7. Added encrypted ETI/MDI file transfer function. 8. Add a remote command to set SLS content on the DAB PAD channel. - CONF:DAB:COMPONENT:PAD_SLS_CONTENTS - READ:DAB:COMPONENT:PAD_SLS_CONTENTS? 9. Added function to select and execute the RECALL with the remote control box. 10. FM Filter performance has been improved to remove spurious noise. 11. Improved to allow multiple remote commands. Each command is separated by a semicolon.

		12. They are improved to match the phase when the left and right audio signal frequencies of FM Stereo are the same. 13. Added parameter to determine whether to check AF CRC or not when transmitting the MDI file 14. Added remote command for MDI CRC Check - CONF:ETI:CONFIG:AF_CRC_CHECK - READ:ETI:CONFIG:AF_CRC_CHECK? 15. Added left/right audio separation measurement function to the audio analyzer. 16. Added a remote command to read the audio separation result. - READ:AUDIO:SEPARATE_L? - READ:AUDIO:SEPARATE_R?
Version 1.030	30 Jan.2024	1. When transmitting content, the method changed from infinitely repeated reading from EMMC memory to transmitting by reading it only once and copying it to DDR memory. 2. Fixed a content structure memory overflow bug that could cause unstable behaviour when transmitting RDS content. 3. The FPGA DLL Clock was improved because it was unlocked very occasionally.
Version 1.020	30 Dec.2023	1. The EON_PTY parameter is added to signal to the receiver the start of a programme item carrying a NEWS, WEATHER or ALARM announcement in FM RDS. 2. Add the remote commands to read audio analyzer waveform data. - READ:AUDIO:SCOPE_WAVE_L? - READ:AUDIO:SCOPE_WAVE_R? - READ:AUDIO:SPECTRUM_WAVE_L? - READ:AUDIO:SPECTRUM_WAVE_R? 3. In FM Wave mode, audio distortion occurred due to an audio buffer index error, so this was improved.
Version 1.010	10 Aug.2023	1. Fixed an issue where the signal was disconnected during DRM+ transmission. 2. Added quasi-peak detector function to Audio Analyzer. 3. Added Path_loss Parameter. 4. Added parameter for remote command delimiter option to select delimiter among LF, LR, LF+LR.

		5. Fix the bug in "CONF:SETUP:TESTER_MODE" remote command. It couldn't change between AM and FM modes. 6. In DRM mode, the OFDM window function was incorrectly applied, creating a spurious signal in the spectrum. This bus is fixed. 7. The EON_AF parameter is set to an incorrect value in FM RDS. It is fixed. 8. There was a problem that the magnitude of the OFDM symbol changes during DRM+ transmission, so it was corrected.