# UTG9604T Revision Record

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| **Date** | **Hardware Version** | **Logic Version** | **Software Version** | **Revision Content** |
| 2025/06/12 | V1.04.0000 | V1.04.0004 | V1.13.1025 | 1. Fixed the issue where arbitrary SCPI commands could not be transmitted. 2. Fixed the stepping issue in the DC algorithm. 3. Added a trigger delay function for Burst N-cycle mode. 4. Fixed the issue where amplitude settings are not retained. 5. Fixed some BUGs. |
| 2025/01/15 | V1.04.0000 | V1.04.0004 | V1.13.1024 | 1. Further confirm some identification strings. 2. Revised the scaling factor for square waveforms. 3. Fixed some BUGs. |
| 2024/11/08 | V1.04.0000 | V1.04.0003 | V1.13.1023 | 1. Fixed the issue where the user interface became inaccessible after a power cycle during channel tracking. 2. Added channel tracking function. 3. Added channel delay configuration to phase parameters. 4. Fixed some BUGs. |
| 2024/08/12 | V1.04.0000 | V1.04.0001 | V1.13.1020 | 1. Fixed the bugs released in the previous version on ZenTao. |
| 2024/05/14 | V1.04.0000 | V1.04.0000 | V1.13.1019 | 1. Added Web access. 2. Added Raw Tcp access. 3. Added upper computer upgrade. 4. Fixed some BUGs. |
| 2024/05/11 | V1.04.0000 | V1.03.0000 | V1.13.1018 | 1. Standardized button click sounds. 2. Fixed bugs related to PM. 3. Increased the fundamental waveform depth from 8K points to 16K points. 4. Modified the thermal protection threshold from 65 °C to 60 °C. 5. Fixed some BUGs. |
| 2024/02/26 | V1.04.0000 | V1.03.0000 | V1.13.1012 | 1. Added SN analysis function; fixed the issue preventing firmware upgrades on the FPGA. 2. Fixed some BUGs. |
| 2024/01/02 | V1.04.0000 | V1.03.0000 | V1.13.1011 | 1. Fixed the issue where the PM modulation phase range was only half of the expected value. 2. Updated firmware to improve LXI command parsing by supporting commands that omit the line feed (\n) character. 3. Added SCPI commands for system clock output and clock source configuration; added a query command for 10 MHz clock validity; added SCPI commands for network configuration. 4. Implemented hardware version and model verification during firmware upgrades to prevent mismatched or incompatible installations. 5. Fixed some BUGs. |
| 2023/08/12 | V1.04.0000 | V1.03.0000 | V1.13.0020 | 1. Modified the pulse waveform edge for CH3, CH4. 2. Fixed some BUGs. |
| 2023/08/23 | V1.04.0000 | V1.03.0000 | V1.13.0019 | 1. Fixed the issue of excessive rise time on CH3, CH4. 2. Fixed some BUGs. |
| 2023/07/27 | V1.04.0000 | V1.03.0000 | V1.13.0018 | 1. Revised the eMMC startup method (not compatible with software version V1.03). 2. Fixed some BUGs. |
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| 2025/6/12 | V1.03.0000 | V1.04.0003 | V1.09.1025 | 1. Fixed the issue where arbitrary SCPI commands could not be transmitted. 2. Fixed the stepping issue in the DC algorithm. 3. Added a trigger delay function for Burst N-cycle mode. 4. Fixed the issue where amplitude settings are not retained. 5. Fixed some BUGs. |
| 2024/11/08 | V1.03.0000 | V1.04.0003 | V1.09.1023 | 1. Fixed the issue where the user interface became inaccessible after a power cycle during channel tracking. 2. Added channel tracking function. 3. Added channel delay configuration to phase parameters. 4. Fixed some BUGs. |
| 2024/07/18 | V1.03.0000 | V1.04.0003 | V1.09.1022 | 1. Fixed the issue of phase offset between channels. 2. Fixed some BUGs. |
| 2024/05/14 | V1.03.0000 | V1.04.0000 | V1.09.1019 | 1. Added Web access. 2. Added Raw Tcp access. 3. Added upper computer upgrade. 4. Fixed some BUGs. |
| 2024/05/11 | V1.03.0000 | V1.03.0000 | V1.09.1018 | 1. Standardized button click sounds. 2. Fixed bugs related to PM. 3. Increased the fundamental waveform depth from 8K points to 16K points. 4. Modified the thermal protection threshold from 65 °C to 60 °C. 5. Fixed some BUGs. |
| 2024/02/26 | V1.03.0000 | V1.03.0000 | V1.09.1012 | 1. Added SN analysis function; fixed the issue where upgrade cannot be performed on FPGA. 2. Fixed some BUGs. |
| 2023/08/21 | V1.03.0000 | V1.03.0000 | V1.09.0019 | 1. Fixed the issue where modifying the gating of CH1 and CH2 on the FPGA affected the output of CH3 and CH4. 2. Fixed some BUGs. |
| 2023/07/21 | V1.03.0000 | V1.02.0000 | V1.09.0018 | 1. Fixed the logic error related to impedance changes under AC/DC superimposed conditions in high/low level display mode. 2. Fixed some BUGs. |
| 2023/06/25 | V1.03.0000 | V1.02.0000 | V1.09.0017 | 1. Fixed the issue where presets and parameters could not be saved. |
| 2023/06/14 | V1.03.0000 | V1.02.0000 | V1.09.0016 | 1. Added screenshot format selection menu with support for PNG, BMP, and JPEG formats. |
| 2023/06/02 | V1.03.0000 | V1.02.0000 | V1.09.0014 | 1. Fixed the freezing issue caused by the quick rotation knob. 2. Fixed the long-press detection time, which was excessively long in the previous version. 3. Fixed some BUGs. |
| 2023/05/23 | V1.03.0000 | V1.02.0000 | V1.09.0013 | 1. Fixed the issue where pulse waveform edge parameters could not be saved. 2. Fixed the display of garbled characters in the arbitrary waveform selection window. 3. Fixed the freezing issue caused by the quick rotation knob. 4. Fixed some BUGs. |
| 2023/05/18 | V1.03.0000 | V1.02.0000 | V1.09.0012 | 1. Added fault tolerance and CRC verification for firmware parameter handling. 2. Fixed some BUGs. |
| 2023/04/19 | V1.03.0000 | V1.02.0000 | V1.09.0011 | 1. Added secondary development SCPI commands for controlling frequency counter parameters. 2. Standardized the format of "transmission content" in digital protocol decoding, which was previously inconsistent (see programming manual for details). 3. Fixed some BUGs. |

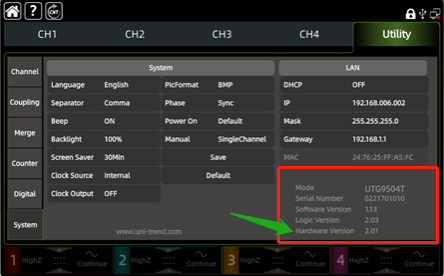
# UTG9504T/9354T Revision Record

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| --- | --- | --- | --- | --- |
| **Date** | **Hardware Version** | **Logic Version** | **Software Version** | **Revision Content** |
| 2025/04/22 | V2.01 | V2.04.0000 | V1.13.1025 | 1. Fixed the issue where arbitrary SCPI commands could not be transmitted. 2. Fixed the stepping issue in the DC algorithm. 3. Added a trigger delay function for Burst N-cycle mode.. 4. Fixed the issue where amplitude settings are not retained. 5. Fixed some BUGs. |
| 2025/01/14 | V2.01 | V2.03.0015 | V1.13.1024 | 1. Revised the default password for web interface login. 2. Revised the scaling factor for square wave output. 3. Fixed some BUGs. |
| 2024/11/08 | V2.01 | V2.03.0015 | V1.13.1023 | 1. Fixed the issue where the user interface became inaccessible after a power cycle during channel tracking. 2. Added channel tracking function. 3. Added channel delay configuration to phase parameters. 4. Fixed some BUGs. |
| 2024/7/18 | V2.01 | V2.03.0015 | V1.13.1021 | 1. Fixed the issue of phase offset between channels. 2. Fixed some BUGs. |
| 2023/8/11 | V2.01 | V2.03.0012 | V1.13.1020 | 1. Fixed the amplitude compensation issue for non-sinusoidal waveforms in the four-channel system. 2. Fixed some BUGs. |
| 2023/7/21 | V2.01 | V2.03.0007 | V1.13.1018 | 1. Fixed the logic error related to impedance changes under AC/DC superimposed conditions in high/low level display mode. 2. Fixed some BUGs. |
| 2023/6/25 | V2.01 | V2.03.0007 | V1.13.1017 | 1. Fixed the issue where presets and parameters could not be saved. |
| 2023/6/14 | V2.01 | V2.03.0006 | V1.13.1016 | 1. Added screenshot format selection menu with support for PNG, BMP, and JPEG formats. |
| 2023/6/2 | V2.01 | V2.03.0006 | V1.13.1015 | 1. Fixed the freezing issue caused by the quick rotation knob. 2. Fixed the display of garbled characters in the arbitrary waveform selection window. 3. Fixed some BUGs. |
| 2023/5/24 | V2.01 | V2.03.0006 | V1.13.1014 | 1. Fixed the issue where pulse waveform edge parameters could not be saved. 2. Fixed the display of garbled characters in the arbitrary waveform selection window. 3. Fixed the freezing issue caused by the quick rotation knob. 4. Fixed some BUGs. |
| 2023/5/18 | V2.01 | V2.03.0006 | V1.13.1013 | 1. Added fault tolerance and CRC verification for firmware parameter handling. 2. Fixed some BUGs. |
| 2023/4/19 | V2.01 | V2.03.0006 | V1.13.1011 | 1. Added secondary development SCPI commands for controlling frequency counter parameters. 2. Fixed some BUGs. |

# Firmware Upgrade Guide

## Upgrade through the system interface

1. Check the current hardware version of UTG9000T.
2. Download the corresponding version firmware from the official website.



1. Save **ALL** firmware files to be upgraded in the root directory of the USB flash drive.
2. Insert the USB flash drive into the USB port of UTG9000T. The instrument will detect the drive and display a prompt: "Upgrade file detected, upgrade now?”

A screen shot of a computer

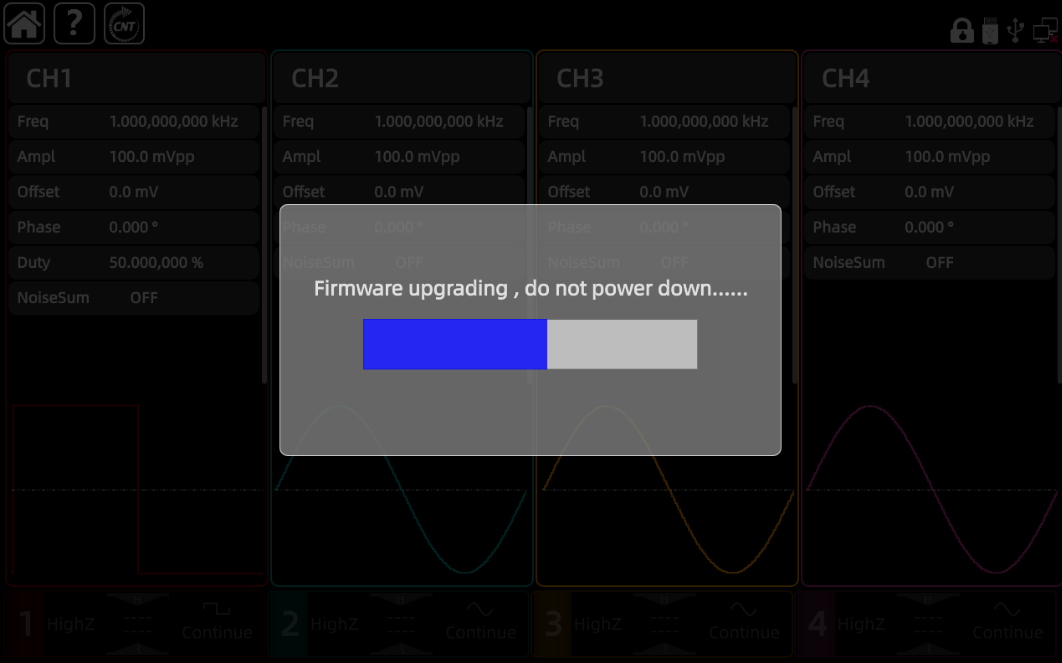
AI-generated content may be incorrect.

1. Select the desired upgrade file by tapping it on the touchscreen (it will be highlighted in blue), then tap **OK** to confirm and begin the upgrade.

A screen shot of a computer

AI-generated content may be incorrect.

1. Wait for the upgrade progress to complete, and the instrument will automatically restart without intervention.



1. Once restarted, remove the USB flash drive. Navigate to the system information page to view the current version information.

