**Revision Record**

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| **Date** | **Hardware Version** | **IF Logic Version** | **RF Logic Version** | **Software Version** | **Revision Content** |

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| 2025/05/10 | IF:1.05.0000  RF:1.04.0000  2.00.0000 | 1.01.0026  1.02.0015 | 1.00.0001  1.01.0001 | **1.04.0040** | 1. Modified the storage logic for factory trial and factory mode countdown. 2. Added forced upgrade from USB drive using factory upgrade package. (USB drive must be FAT32 formatted with a directory named "utsx\_upgrade\_forced" containing upgrade files. Press and hold power button during startup for 5+ seconds until upgrade information appears on screen, then wait for automatic restart.) 3. Fixed DANL issue. 4. Fixed other BUGs. |
| 2025/03/28 | IF:1.05.0000  RF: 1.04.0000  2.00.0000 | 1.01.0026  1.02.0015 | 1.00.0001  1.01.0001 | **1.04.0034** | 1. Resolved the communication failure issue caused by the download of calibration data getting stuck. 2. Fixed other bugs. |
| 2025/3/22 | IF:1.05.0000  RF: 1.04.0000  2.00.0000 | 1.01.0026  1.02.0015 | 1.00.0001  1.01.0001 | **1.04.0033** | 1. Added test pages for touch screen, LED, and buttons. 2. Added a 200-hour countdown function for the factory mode. 3. Added logarithmic frequency axis in SA mode. 4. Added EMI detector in SA mode (only available with EMI option). 5. Added system disk repair function (resolves read-only disk issue caused by abnormal power loss). 6. Added reliable upgrade functionality (factory folder: firmware for factory upgrade, fixed after shipment; user folder: for user upgrades with recovery support). 7. SNA option now only supports models with a functional TG. 8. Fixed various other BUGs. |
| 2025/2/22 | IF:1.05.0000  RF: 1.04.0000  2.00.0000 | 1.01.0026  1.02.0015 | 1.00.0001  1.01.0001 | **1.04.0028** | 1. Focused on modifying SCPI issues in the bug list. 2. Optimized the "waiting for trigger" issue during calibration. 3. Implemented a fixed machine activation scheme for factory mode activation. 4. Fixed some other BUGs. |
| 2024/12/31 | IF:1.05.0000  RF: 1.04.0000  2.00.0000 | 1.01.0025  1.02.0011 | 1.00.0001  1.01.0001 | **1.04.0027** | 1. Fixed the issue where external trigger was invalid when TG was enabled. 2. Disabled the special feature of switching to factory mode during business trips. 3. Fixed some BUGs. |
| 2024/10/21 | IF:1.05.0000  RF:1.04.0000  2.00.0000 | 1.01.0024  1.02.0004 | 1.00.0001  1.01.0001 | **1.04.0020** | 1. Fixed issues carried over from the previous version. 2. Released SNA (reflection measurement) to all models with TG. 3. Fixed the crash issue when the sound card was opened. 4. Addressed other SCPI issues. |
| 2024/7/5 | IF:1.05.0000  RF:1.04.0000  **2.00.0000** | 1.01.0022  **1.02.0004** | 1.00.0001  **1.01.0001** | **1.03.0067** | 1. Added maximum demodulation time for analog demodulation. 2. Added import/export function for analog demodulation. 3. Added RF hardware version 2.0 to resolve a series of issues caused by chip parking. (Version 2.00 is incompatible with 1.04). 4. Fixed other BUGs. |
| 2024/5/9 | IF:1.05.0000  RF:1.04.0000 | 1.01.0022 | 1.00.0001 | **1.03.0059** | 1. Fixed demodulation signal trigger stability for analog demodulation, and addressed some SCPI issues. 2. Added PM demodulation. 3. Fixed other BUGs. |
| 2024/4/9 | IF:1.05.0000  RF:1.04.0000 | **1.01.0022** | 1.00.0001 | **1.03.0053** | 1. Fixed abnormal RBW amplitude in EMI mode. 2. Fixed SCPI-related bugs. 3. Increased the number of calibration points for the Tracking Generator. |
| 2023/9/15 | IF:1.05.0000  RF:1.04.0000 | 1.01.0020 | 1.00.0001 | **1.03.0033** | 1. Fixed amplitude inaccuracy issue introduced in version 28. 2. Fixed video trigger issue in Zero SPAN mode. 3. Fixed compatibility issues with RF hardware versions below 1.03. 4. Fixed occasional frequency loss during calibration. 5. Modified TG calibration success judgment start frequency: 3036 starts from 10M, 3084 starts from 100K. 6. Fixed abnormal amplitude at the last scan point when the TG sweep includes a 9k start frequency. 7. Fixed other BUGs. |
| 2023/8/29 | IF:1.05.0000  RF:1.04.0000 | **1.01.0020** | 1.00.0001 | **1.03.0028** | 1. Fixed SCPI bugs. 2. Modified amplitude compensation strategy at RF segment boundaries. 3. Fixed amplitude overflow issue with EMI average detection. 4. Fixed other BUGs. |
| 2023/8/15 | IF:1.05.0000  RF:1.04.0000 | 1.01.0017 | 1.00.0001 | **1.03.0027** | 1. Optimized trace normalization. 2. Device name and bandwidth are now parsed from the SN. 3. Improved SCPI command set for IEEE488 compliance. 4. Added screenshot image formats. 5. Added support for 3084 model. 6. Fixed issue where trace update status did not reset to "Off" after importing trace + data during advanced measurements in Spectrum Analyzer mode. 7. Added support for importing measurement data/traces (CSV files) in SA mode. 8. Added new socket remote control method. 9. Fixed other BUGs. |
| 2023/5/12 | IF:1.05.0000  RF:1.04.0000 | 1.01.0017 | 1.00.0001 | **1.03.0009** | 1. Web page: a. Translation, b. Corrected erroneous content, c. Added remote control support, d. Improved login adaptation for different mobile phones. 2. Code structure reorganization, requires testing to verify impact on main functional modules. 3. Fixed bugs in EMI mode. 4. Optimized sound card audio quality. 5. Fixed parameter save failure caused by excessively long device names. 6. Added USB 3.0 hardware reset function to the system runtime script to resolve unstable USB 3.0 recognition. |
| 2023/4/4 | IF:1.05.0000  RF:1.04.0000 | 1.01.0017 | 1.00.0001 | **1.03.0008** | 1. Added new web control page. Address: "http://IP address". 2. Updated status of issues in the bug list to "Ready for Test". 3. Added USB 3.0 hardware reset function to the system runtime script to resolve unstable USB 3.0 recognition. 4. Added USB reset signal to hardware. |
| 2023/3/23 | IF:**1.05.0000**  RF:1.04.0000 | **1.01.0017** | 1.00.0001 | **1.03.0007** | 1. Fixed refresh issue in Zero SPAN when RBW=1KHz 1 kHz and sweep time <1 ms. 2. Added automatic threshold time for frequency counter. 3. Fixed frequency counter update issue when threshold time <10 ms. 4. Fixed RF segment data loss caused by insufficient IF storage length when avoiding fractional spurs generated too many RF segments. 5. Fixed insufficient frequency counter accuracy issue. 6. Fixed data discontinuity issue in single-shot analog demodulation. 7. Fixed other BUGs. |
| 2023/2/20 | IF:1.04.0000  RF:1.04.0000 | 1.01.0012 | 1.00.0001 | **1.03.0006** | 1. Fixed degraded Residual Response compared to previous version caused by the lower noise floor in version 1.03.0005. 2. Fixed other BUGs. |
| 2023/2/8 | IF:1.04.0000  RF:1.04.0000 | **1.01.0012** | 1.00.0001 | **1.03.0005** | 1. Fixed large 3dB error for FPGA 1 MHz RBW. 2. Optimized "Waiting for Trigger"; requires long-term testing and validation. 3. Optimized in-band calibration. 4. Fixed other BUGs. |
| 2023/1/9 | IF:1.04.0000  RF:1.04.0000 | 1.01.0010 | 1.00.0001 | **1.03.0004** | 1. Fixed VBW issue below the waveform frame. 2. Fixed VBW display issue in EMI mode. |
| 2022/12/28 | IF:1.04.0000  RF:1.04.0000 | **1.01.0010** | 1.00.0001 | **1.03.0002** | 1. Fixed video trigger issue in Zero SPAN. 2. Optimized Normal detector performance. 3. Fixed other BUGs. |
| 2022/12/9 | IF:1.04.0000  RF:1.04.0000 | **1.01.0007** | 1.00.0001 | 1.02.0005 | 1. Improved SCPI command interface functionality. 2. Fixed other BUGs. |
| 2022/12/3 | IF:1.04.0000  RF:1.04.0000 | **1.01.0006** | 1.00.0001 | 1.02.0005 | 1. Optimized calibration. 2. Added internal RF 100 MHz square wave switch (last item in Amplitude menu). 3. Added optional SCPI '\n' functionality. 4. Improved SCPI command interface functionality. 5. Fixed other BUGs. |
| 2022/11/22 | IF:1.04.0000  RF:1.04.0000 | 1.01.0005 | 1.00.0001 | 1.02.0005 | 1. Optimized Normal detector. 2. Optimized mitigation of amplitude fluctuations caused by spurs (1st IF changed from 5.466G to 5.410G). 3. Optimized high/low temperature compensation. 4. Fixed other BUGs. 5. First version. |

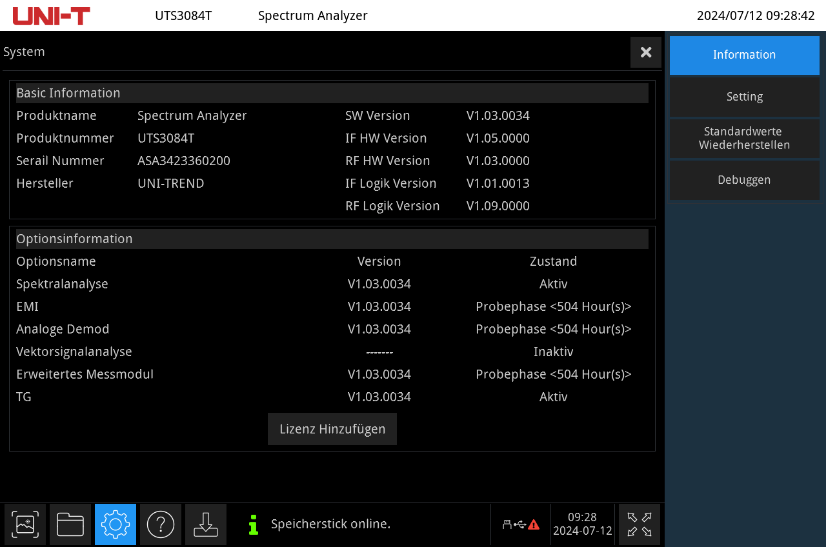
Notes:

1. RF hardware versions V1.04.0000 and V2.00.0000 are not compatible.
2. The upgrade file for UTS3021B is the same as for UTS3036B.

**Firmware Upgrade Guide**

**Upgrade through the system interface**

1. Check the current hardware version of the instrument.
2. Download the corresponding version firmware from the official website.
3. Press the System key or click the Setting key on the displayed page.



1. Save the firmware to a USB flash drive.

图形用户界面, 文本, 应用程序, 电子邮件

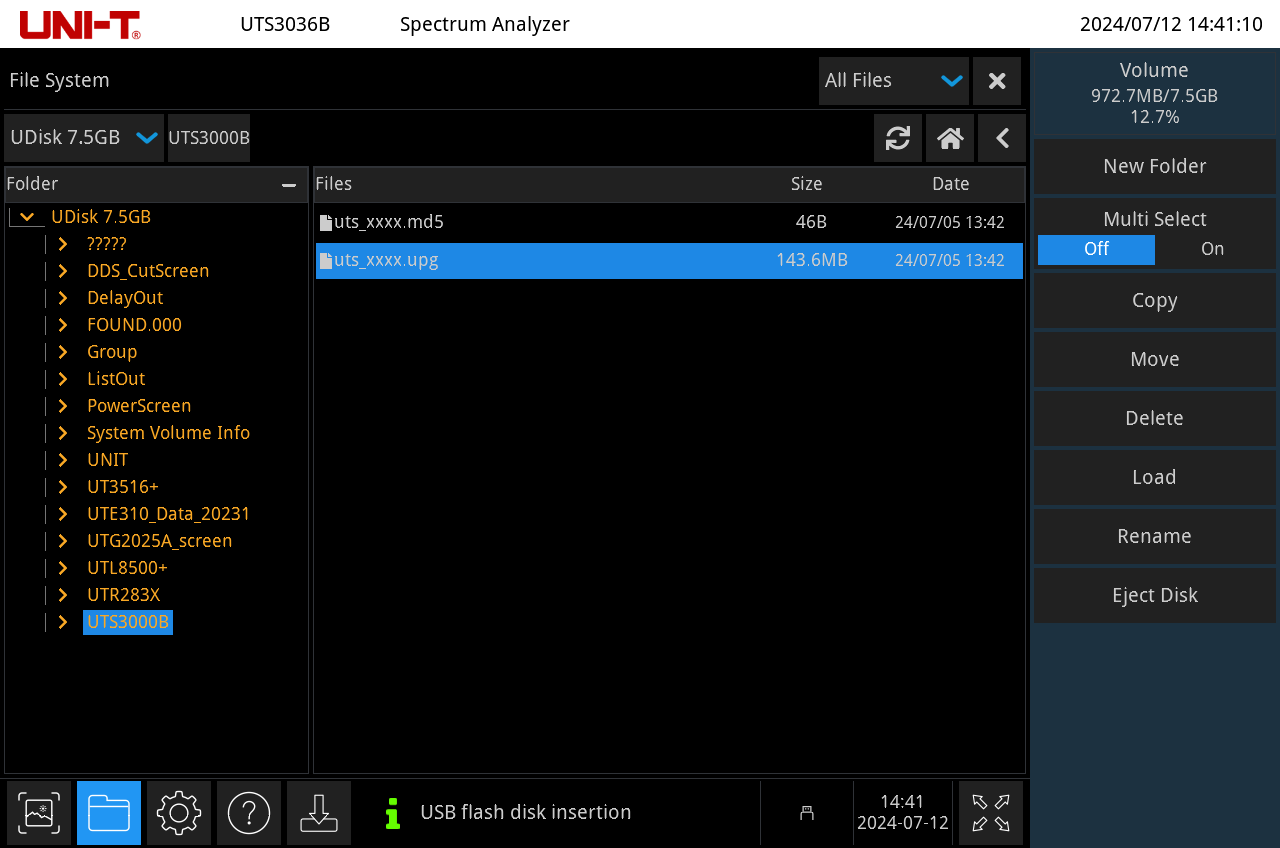
描述已自动生成

1. Insert the USB flash drive into the USB port on the front panel.

* Click the file folder 图片包含 文本

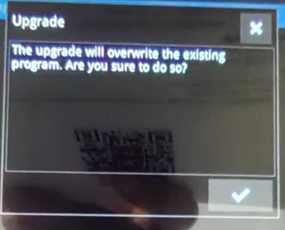
  描述已自动生成 key to enter the file system.
* Tap  at the top left corner of the screen to select the USB flash drive.
* Select the firmware file folder.
* Navigate to the folder where the firmware is stored, double-click  or single-click the **Load** menu on the right side to enter Upgrade Process. A prompt will appear “The upgrade will overwrite the existing program. Are you sure to do so?”
* Click 电脑屏幕的照片

  中度可信度描述已自动生成 to confirm the upgrade settings.



Click

double-click



1. Wait for the upgrade to complete and the instrument will automatically reboot without intervention, a normal reboot will complete the upgrade.
2. After the instrument reboots, unplug the USB flash drive. Go to the System Information page to view the current version information.

屏幕的截图

描述已自动生成