

HID Real-Time PCR Analysis Software v1.3.1

Software Release Notes

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Applied Biosystems™ HID Real-Time PCR Analysis Software supports the Applied Biosystems™ 7500 Real-Time PCR System for Human Identification and QuantStudio™ 5 Real-Time PCR System for Human Identification. The software provides Quantifiler™ kit-specific templates and data quality flags, as well as STR reaction and dilution calculation tools which can be used to set up experiments and analyze data generated from the Quantifiler Trio and HP, Duo, Human and Male DNA Quantification kits, creating a complete, integrated solution for DNA quantification.

New Features for HID Real-Time PCR Analysis Software v1.3.1:

HID Real-Time PCR Analysis Software v1.3.1 (an upgrade of HID Real-Time PCR Analysis Software v1.3) supports system upgrades for both HID 7500 Real-Time PCR System and QuantStudio 5 Real-Time PCR platforms to run on Microsoft® Windows® 10 operating system. This upgrade does not include additional changes beyond Windows 10 installation and functionality capabilities.

Computer Requirements

The computer requirements for HID Real-Time PCR Analysis Software v1.3.1 are based on ThermoFisher supported Laptop and Desktop:

- **Operating Systems:**
 - Windows 10 Enterprise (2016 LTSC or 2019 LTSC)

IMPORTANT! Do not run antivirus applications while HID Real-Time PCR Analysis Software v1.3.1 is running as these applications may interfere with data collection from the instrument.

Installation

IMPORTANT!

- Users must have Administrator privileges on the computer to install the HID Real-Time PCR analysis Software v1.3.1.
- Installation of the HID Real-Time PCR Analysis Software v1.3.1 requires a stand-alone or fresh install using the download link provided in the instructions below, meaning previous versions of the HID Real-Time PCR Analysis Software will need to be uninstalled prior to installing v1.3.1.
- Installation disks for versions 1.3 or prior will NOT be used during the v1.3.1 installation process.
- Although the v1.3 installation disk should be ignored, a valid v1.3 registration code that

ships with the v1.3 installation disk is required to complete the v1.3.1 installation process.

- While HID Real-Time PCR Analysis Software v1.3.1 is considered a fresh install, both v1.3 Fresh and Upgrade Registration Codes will be valid during the registration process.

HID Real-Time PCR Analysis Software v1.3.1 – Supported Software Scenarios

1.) Installation of the software on an instrument computer running a previous version of the HID Real-Time PCR Analysis Software that is getting upgraded to Windows 10 and HID Real-Time PCR Analysis Software v1.3.1.

- For 7500 System, back up all the Calibrations, Experiments and Log files from below locations:
 - **Calibration files:**
 - **From** \<install location>\7500\eclipse\plugins\com.apldbio.sds.instrument.sds7500_1.0.0\config\
 - **Experiments:**
 - **From** \<install location>\7500\experiments folder
 - **Log files:**
 - **From** \<install location>\7500\config\logs folder

Save the backed-up files on the shared location/ USB Drives or CD (Outside of the computer which will be upgraded to Win-10).

- For the QuantStudio 5 System, calibration, experiments and log files are located on the instrument itself and not on the computer. It is therefore not necessary to back up QS5 calibration files prior to the computer OS upgrade, unless you have directed software to save experiment files to a location on a network drive. If experiment files are also saved on a network drive, save the files to shared location/USB drive or CD (Outside of the computer which will be upgraded to Win-10).
- Re-image the computer system with the ThermoFisher provided Windows 10 Operating System (OS) image for your instrument. Please refer to the Upgrade Install Instructions (Document Number 100081382) provided with your Windows 10 image and ensure all data is backed-up before OS upgrade.

Note: Please use the USB that matches the computer model

- Once the computer is upgraded to Windows 10, follow the steps below to install v1.3.1:
 - Using the download hyperlink next to the HID Real-Time PCR Analysis Software v1.3.1 description, download the software folder from the following link:
 - <https://www.thermofisher.com/us/en/home/technical-resources/software-downloads/applied-biosystems-7500-real-time-pcr-system-for-human-identification.html>
 - In the download folder, click on the setup.exe file to start the Installation Wizard. Follow the instructions in the installation wizard to install the HID Real-Time PCR Analysis Software v1.3.1.
 - Enter the HID Real-Time PCR Analysis Software v1.3 Registration Code provided. HID Real-

- Time PCR analysis software v1.3.1 does not have a separate Registration Code.
 - Choose the co-located instrument (either 7500 Real-Time PCR Analysis System or QuantStudio 5 System).
- Proceed to restoring the saved calibration files or running new calibration plates, if necessary, depending on the instrument.

IMPORTANT! During installation you must enter the exact Instrument Serial Number used when installing the previous version of HID Real-Time PCR Analysis software. This ensures that the calibration files remain valid for the instrument.

Restore calibration and experiment files / folders for the 7500 System:

- ✓ After successful installation of v1.3.1, you must restore the calibration files, experiment files and log files and ensure that all calibrations are up to date.
- ✓ **To restore the calibration files:**
 - **Copy the files from** Backup location
 - **To** \<install location>\7500\eclipse\plugins\com.apldbio.sds.instrument.sds7500_1.0 .0\config
- ✓ **To restore the experiments files:**
 - **Copy the files from** Backup Location
 - **To** \<install location>\7500\experiments folder
- ✓ **To restore the Log files:**
 - **Copy the files from** Backup location
 - **To** \<install location>\7500\backup\config\logs\<date stamp> folder

2.) New Instrument/New Software Installation on a computer shipped with a Windows 10 Operating System

- Follow the steps below to install v1.3.1:
 - Using the download hyperlink next to the HID Real-Time PCR Analysis Software v1.3.1 description, download the software folder from the following link:
 - <https://www.thermofisher.com/us/en/home/technical-resources/software-downloads/applied-biosystems-7500-real-time-pcr-system-for-human-identification.html>
 - In the download folder, click on the setup.exe file to start the Installation Wizard. Follow the instructions in the installation wizard to install the HID Real-Time PCR Analysis Software v1.3.1.
 - Enter the HID Real-Time PCR Analysis Software v1.3 Registration Code provided. HID Real-Time PCR analysis software 1.3.1 does not have a separate Registration Code.
 - Choose the co-located instrument (either 7500 Real-Time PCR Analysis System or QuantStudio 5 System).
- If 7500 System is chosen:
 - After the software installation, perform the following calibrations before using the HID 7500 Real-Time PCR Analysis System:

- a. 7500 Real-Time PCR System (ROI) calibration
 - b. Background calibration
 - c. Optical calibration
 - d. Pure-dye calibrations
- Perform an RNaseP verification run
- If QuantStudio 5 System is chosen:
 - Perform Custom dye calibration for ABY-HID and JUN-HID on the QuantStudio 5 instrument.

3.) Installation of the software on a non-instrument computer running a previous version of the HID Real-Time PCR Analysis Software that is getting upgraded to Windows 10 and HID Real-Time PCR Analysis Software v1.3.1.

- Re-image the computer system with ThermoFisher provided Windows 10 Operating System (OS) image
- Once the computer is upgraded to Windows 10, follow the steps below to install v1.3.1:
 - Using the download hyperlink next to the HID Real-Time PCR Analysis Software v1.3.1 description, download the software folder from the following link:
 - <https://www.thermofisher.com/us/en/home/technical-resources/software-downloads/applied-biosystems-7500-real-time-pcr-system-for-human-identification.html>
 - In the download folder, click on the setup.exe file to start the Installation Wizard. Follow the instructions in the installation wizard to install the HID Real-Time PCR Analysis Software v1.3.1.
 - Enter the HID Real-Time PCR Analysis Software v1.3 Registration Code provided. HID Real-Time PCR analysis software v1.3.1 does not have a separate Registration Code.

4.) Upgrade from SDS v1.2.3 Software:

- Archive all experimental and calibration data.

IMPORTANT! Make sure you complete this step first. The SDS v1.2.3 software cannot coexist with HID Real-Time PCR Analysis Software v1.3.1.
- Uninstall the existing SDS software using “Add & Remove Programs” from the Windows Control Panel.
- Follow the steps below to install v1.3.1:
 - Using the download hyperlink next to the HID Real-Time PCR Analysis Software v1.3.1 description, download the software folder from the following link:
 - a. <https://www.thermofisher.com/us/en/home/technical-resources/software-downloads/applied-biosystems-7500-real-time-pcr-system-for-human-identification.html>
 - In the download folder, click on the setup.exe file to start the Installation Wizard. Follow the instructions in the installation wizard to install the HID Real-Time PCR Analysis Software v1.3.1.
 - a. Enter the HID Real-Time PCR Analysis Software v1.3 Registration Code provided. HID Real-

Time PCR analysis software 1.3.1 does not have a separate Registration Code.

Known Issues with HID Real-Time PCR Analysis Software v1.3.1.

Please refer to the HID Real-Time PCR Analysis Software v1.3 User Guide (Part Number: MAN0009819) for the known issues. HID Real-Time PCR Analysis Software v1.3.1 known issues remain unchanged.

Legal Statements

For Research, Paternity or Forensic Use Only. Not for use in diagnostic procedures.

Notice to Purchaser:

Purchase of this software product alone does not imply any license under any process, instrument or other apparatus, system, composition, reagent or kit rights under patent claims owned or otherwise controlled by Thermo Fisher Scientific either expressly, or by estoppel.

HID Real-Time PCR Analysis Software v1.3.1 has undergone a verification process defined by Applied Biosystems. It is your responsibility to perform your own analysis and appropriate internal validation studies to ensure that the products, including the HID Real-Time PCR Analysis Software v1.3.1, and procedures your laboratory use are fit for your own human identification applications.

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