

HPR LITE FIRMWARE UPDATE v1.07.20

RELEASE NOTES | NOVEMBER 5, 2020



Biomark

HPR Lite Firmware v1.07.20:

This update is only applicable to HPR Lite readers with part number 30012-0A2.

Reader's Bluetooth module (BT33LT) firmware update v190221B is required for all Bluetooth connection improvements to take effect.

- Added automatic adjustment of communication speed between CPU and Bluetooth module if an error is detected.
- Improved Bluetooth module reset process duration.
- Added configuration parameters of old Bluetooth stack for legacy compatibility.
- Modified reader behavior to prevent reading tags if the battery charge level is below 6.4V.
- Fixed an issue with the "Low external power" error message being displayed occasionally when a USB cable is connected to the reader.
- Fixed an issue with the "Reading" message locking on the screen when the battery charge level drops below 6.4V when reading tags.
- Modified reader behavior to shut down if the battery charge level drops below 6V.
- Added Numeric (NUM) tag ID display format - decimal format without "." delimiter between manufacturer ID and tag ID:
 - s 5 3
 - 5. Tag Format = 3 (NUM)
 - 09-10-2020 13:38:37 01 TAG 989001025038267
- Changed "rfv" command to display the complete reader's firmware version - "x.xx.xx":
 - rfv
 - 1.07.20

UPDATING FIRMWARE GUIDELINES

HPR Lite reader application firmware update:

As a precaution, download all tag IDs contained in the HPR Lite reader's memory before initiating the update process. All settings may be reset to manufacturer default values during the update process, so it is recommended to take a note of the present settings prior to updating the reader.

HPR Lite reader application firmware can be updated via Biomark Device Manager or Biomark Tag Manager communication programs. Please refer to the HPR Lite User Manual for the procedure.

HPR Lite Bluetooth module (BT33LT) firmware update:

Reader's Bluetooth module (BT33LT) firmware update v190221B is only applicable to HPR Lite readers with part number 30012-0A2.

1. Visit the HPR Lite page at <https://www.biomark.com/hpr-lite-reader>, the Downloads & Help section and download the "HPR Lite Bluetooth Module Update v190221B.zip" file and extract its content to a dedicated folder (use the same name as the file).
2. Go to the "HPR Lite Bluetooth Module Update v190221B" folder and run "Bluetooth Module Updater Setup.msi" file and complete the updater installation process. It may be necessary to use "Run as administrator" mode.
3. Connect the HPR Lite reader to the PC via USB cable.
4. Go to the Desktop folder and click on the "Bluetooth Module Updater" shortcut to run the program. It may be necessary to use "Run as administrator" mode.
5. When the Bluetooth Module Updater program starts, it will discover and connect to the HPR Lite reader automatically.
6. Once the program starts and connection to the reader is established, click on the "Upgrade BT33LT" button and wait for the process to complete.
7. Once the update is complete, close the program and reset the reader.
8. Once all the readers have been updated, uninstall Bluetooth Module Updater program and delete the "HPR Lite Bluetooth Module Update v190221B" folder and the "HPR Lite Bluetooth Module Update v190221B.zip" file.

For technical assistance please contact the Customer Services Department of Biomark at (208) 275-0011 or email customerservice@biomark.com.

HPR LITE FIRMWARE UPDATE v1.05.00

RELEASE NOTES | JULY 19, 2019 (previous update)

HPR Lite Firmware v1.05.00:

- Fixed new Bluetooth devices registration failure issue.
- Fixed Bluetooth disconnection issue.
- Fixed Auto Shutdown issue when in “About Bluetooth” menu.
- Increased speed and stability of the Bluetooth connection.
- Implemented BioTherm tag extended temperature range detection. The displayed temperature range is +25.0°C to +50.0°C. Temperature below range is displayed as "LL.L C", temperature above range is displayed as "HH.H C".

07-19-2019 13:36:32 01 TAG 3DD.003D18D7BB LL.L C

07-19-2019 13:36:34 01 TAG 3DD.003D18D7BB 25.8 C

07-19-2019 13:36:35 01 TAG 3DD.003D18D7BB HH.H C

Note: Specified BioTherm tag temperature measurement accuracy is $\pm 0.5^{\circ}\text{C}$, BUT only from $+33.0^{\circ}\text{C}$ to $+43.0^{\circ}\text{C}$. Accuracy is not specified and not guaranteed outside the $+33.0^{\circ}\text{C}$ to $+43.0^{\circ}\text{C}$ range.

Note: HPR Lite Bluetooth module (BT33LT) firmware update is required for all Bluetooth connection improvements to take effect.

HPR LITE FIRMWARE UPDATE v1.03.00

RELEASE NOTES | MAY 25, 2018 (previous update)

HPR Lite Firmware v1.03.00:

- Changed minimum Backlight Time to 5 seconds.
- Renamed "Storage Mode" parameter to "Memory".
- Added ability to reload the manufacturer's default settings by pressing LEFT and RIGHT arrow buttons during reader power up.
- Modified font, used to display tags ID number, to have maximum 8 pixels in width.
- Changed Bluetooth CPU speed to 8MHz from 4MHz, per MFi requirements.
- Changed default Temperature Unit setting to Celsius.
- Adjusted “High temperature” alarm threshold.
- Fixed reader shutdown issue after Bluetooth disconnection, when Auto Shutdown Time is reached.
- Added weak pull-up on USBID to fix the issue related to presence of moisture in USB connector.

HPR LITE FIRMWARE UPDATE v1.01.00

RELEASE NOTES | SEPTEMBER 26, 2017 (previous update)

HPR Lite Firmware v1.01.00:

- Added ability to change reader date and time settings through reader LCD interface.
- Added ability to cancel searching for Bluetooth devices by pressing the left key.
- Added message "No devices found" to be displayed when no Bluetooth devices were found during the search.
- Corrected reader behavior when Bluetooth is disabled and re-enabled while the connection is still established with a remote device.
- Corrected reader behavior when Bluetooth connection is established to it by a remote device while its Bluetooth setting is set to Master mode.
- Changed the default reader's Bluetooth discoverable name to "HPR-Lite_xxxx" ("xxxx" are the digits from reader S/N "DPxxxx").
- Added down arrow in the General Settings menu to indicate that more settings are available on the next page.
- Added message "Memory is empty" to be displayed when "View Tags" is selected through the Memory Settings menu and the memory is empty.
- Enhanced reader behavior when a USB Flash Drive is connected.
- Corrected minor issue with displaying some of the LCD content.
- Improved EEPROM initialization.
- Removed "boot" command.
- Fixed an issue with changing "Temperature Format" setting that caused reader screen to blink or go completely blank.
- Corrected USB connection icon behavior when Bluetooth is set to Master mode.
- Corrected auto-shutdown feature behavior when reader's battery is fully charged.
- Added <CR><LF> to "rhv" command's response.
- Removed extra <CR><LF> from 's' and 'st' commands' responses.
- Fixed the problem with re-issuing "rdp" command crashing the firmware.