
HeRO[®]

*solo / duet USB
Data Export Manual*



MPSC
The Power To Predict

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HeRO Service Manuals are available upon request. Single copies are available at no additional cost and will be delivered within seven days of receiving the request.

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HeRO Solo & Duet

HeRO *solo* and HeRO *duet* are self-contained implementations of HeRO and are built upon the same technology platform. The monitors share a hardware platform, with the difference being in the number of patients monitored. Each processes ECG data from one (*solo*) or two (*duet*) patient monitors and shows HeRO Scores for the monitored bed(s).

USB Data export is an optional enhancement available for HeRO *solo* and HeRO *duet* versions equal to or greater than 3.1.362. The revision number is shown when clicking the Help button on the monitor. If the monitor has the USB export option, there will be a 4 character unique identifier in front of the patient label. For example, “1CC5-0 Purple” would indicate that this monitor is equipped with the USB export, and monitor has the unique identifier of 1CC5.

USB Data Export usage

1. If your HeRO monitor was supplied with a USB extension cable (units purchased after November, 2018) then go to Step 4. If your HeRO monitor was not supplied with a USB extension cable then go to Step 2.
2. Remove the bottom cover of the HeRO monitor.
3. For ease of future use, a user supplied USB extension cord may be plugged into one of the available USB ports on the bottom of the monitor. The female end of the extension cord should be routed out of the access slot in the bottom cover. After adding the extension cable, the bottom cover should be reattached.
4. Using a FAT32 or NTFS formatted USB flash drive with a minimum of 10MB of space available, attach the USB flash drive to an available USB port on the bottom of the monitor or to the female end of the USB extension cable if utilized. The data download process will initiate automatically and all of the data on the monitor will be exported to the USB flash drive.
 - a) A folder named “HeRO” will be created on the USB flash drive.
 - b) The folder will contain files for each bed and day. The filename will be in one of the following formats:
 - hero- XXXX-X_YYYYMMDD-scores.txt
 - hero- XXXX-X_YYYYMMDD-scores-list.json
 - hero- XXXX-X_YYYYMMDD-rri-ts.json
 - hero- XXXX-X_YYYYMMDD-rri-list.json

where XXXX-X = the unique identifier that appears on the monitor

screen and -0 = purple or -1 = orange

and YYYYMMDD = the date the data was recorded (YYYY = year, MM = month, DD = Day).

- c) The file is organized as follows for .txt files
- Site (usually solo or duet)
 - MRN (Medical Record Number, usually blank)
 - Bed (The bed identifier that appears on the monitor screen -0 = purple, -1 = orange)
 - Time (The hour will be in 24-hour format and the date will be in MM/DD/YYYY or DD/MM/YYYY format based on system configuration.)
 - Score (The HeRO score)
- d) The file is organized as follows for .json list files
- Bed ID (The bed identifier that appears on the monitor screen -0 = purple, -1 = orange)
 - MRN (Medical Record Number, usually blank)
 - Timestamp (ISO 9601 format)
 - Score/Value (HeRO score or RRI Interval)
- e) The file is organized as follows for .json time series files
- Bed ID (The bed identifier that appears on the monitor screen -0 = purple, -1 = orange)
 - MRN (Medical Record Number, usually blank)
 - Timestamp (ISO 9601 format)
 - Score/Value (RRI Intervals or Heart Rate)
 - For RR Intervals, each time series shall contain a set of up to 4096 valid RR intervals, along with the invalid/time gap intervals that separate them.
 - For Heart Rate or other physiological parameters, each time series shall contain 30 minutes' worth of numeric values.
5. Please leave the USB flash drive attached for a minimum of 2 minutes. All of the data on the HeRO monitor prior to today will be exported to the drive.
6. The data files are stored as tab-delimited text, .txt, files that can be opened in

- Microsoft Excel or similar programs, or text based format, .json, files that can be opened using text editors or code editors.
7. Data files are stored on the HeRO solo or duet monitor for 15 days. Files older than 15 days will be purged automatically from the monitor, so be sure to download data files within the time frame to prevent data lose.
 8. Touching the “Discharge” button on the monitor screen removes all patient information displayed for the bed(s), but does not remove the export data from the monitor.

Support

If you are in need support for any of the HeRO systems, please contact MPSC Technical Support at +1-800-394-1625 option 5.