

Midmark® Digital ECG Handling and Use Guide

Proper Handling of the Device

- **The device is not meant to be disassembled unless directed to by Midmark Technical Service.**
- Handle this device with care, taking all necessary precautions to prevent and avoid heat sources, liquids and other possible causes of damage.
- Do not carry/transport the device via USB cable or patient cable.
- Check the device daily before using:
 - Ensure the USB cable and patient cable are securely connected.
 - Check the USB cable and patient cable for visible damage.
 - Check the power button for signs of deterioration.
 - Check the casing for any damage.
- Utilize proper storage procedures:
 - Do not hang the device by the USB cable or patient cable.
 - Do not pull or stretch patient cables as this could result in mechanical and/or electrical failures. Store patient cables after forming them into a loose loop.
- Do not exceed a minimum bend radius of 25 mm (~1 inch) on USB and patient cables to prevent damage.
- Avoid extreme humidity and heat during storage.
- Follow proper cleaning guidelines:
 - Do not remove cables for cleaning.
 - Ensure the device is turned off prior to cleaning.
 - Do not immerse the device in water or other liquid.
 - Do not use organic solvents, ammonia-based solutions or abrasive cleaning agents, which could damage the surface of the device.
 - For full cleaning guidelines please refer to the Midmark Digital ECG Operation Manual #003-10563-00.



Proper Use of the Device

- Midmark Digital ECG is intended to be used with direct connection to a computer's USB port. USB dongles, USB adapters, USB powered hubs, USB extensions, computer monitor USB ports, and other similar 3rd party accessories are NOT supported with the Digital ECG.
- Use the power button to turn on the device.
- No need to use the power button to turn off the device, it will automatically power down when the USB cable is unplugged from the computer.
- The device is equipped with a two-color yellow and blue LED status indicator. The following device statuses correspond to the LED indicators:



LED	Device Status
Off	The Midmark Digital ECG is switched off.
Flashing Yellow	Midmark Digital ECG is on, but in error status which prevents its use (e.g., USB connection not established), Midmark USB ECG driver is not installed.
Flashing Blue	Midmark Digital ECG is on, connection active, waiting for the software to activate ECG acquisition.
Steady Blue	Midmark Digital ECG is connected to the PC, ECG acquisition/transmission in progress.

- The Digital ECG device is fitted with a buzzer to indicate:

Sound	Event
Ascending tone sequence	Switching on
Quick two-tone sequence	PC connection

- The live ECG acquisition screen will show the signal tracings after all limb leads have been connected. When the right-leg (RL) lead becomes detached, the system behaves as if all electrodes were disconnected.
- Lead placement does affect the ECG waveform.