IQmark™ Digital ECG

Quick Reference Guide – Performing a 12-Lead Resting ECG Test

1. Start the IQmark™ Diagnostic Workstation program.
2. Click on New Patient (for new patient), or Patient File (for registered patient) and double click on the patient’s name.
3. Enter (or update) the patient’s demographics; especially date of birth and sex, vitals, medications and other information in the appropriate fields. Blood Pressure entered in the vitals will be noted on the ECG report.
4. Prepare the patient for the ECG test.
   a. Remove clothing to expose electrode prep sites.
   b. Shave body hair if necessary to ensure a good hookup.
   c. Prep skin at electrode sites with alcohol wipes. Let air dry. (Body oils/lotions will interfere with electrode signals)
   d. Apply fresh disposable electrodes on the patient, making sure the electrodes are adhering well.
5. Attach the Universal Clips to the disposable electrodes. Refer to the labels on the patient cable for correct electrode placement sites.
6. When the Patient Data screen is complete, select New Test.
7. Select ECG, enter Technician name, Requesting Physician name and Indication as needed, then click OK.
8. Again, instruct the patient to relax.
9. Wait for the ECG tracings to pass the screen twice (allow about 20 seconds). Verify that the ECG tracings are established and the baselines have settled down.
10. Click on Analyze button to capture and analyze the ECG. An ECG report is automatically stored when the green box next to ECG Report is solid. The number of ECG report(s) saved during this test is indicated in parenthesis.
11. Click on the Review button to exit and to review, edit and/or print the results. Then click Review to return to the IQmark Diagnostic Workstation opening screen.
12. Remove electrodes from patient. Discard the used disposable electrodes immediately.

Quick troubleshooting tips:
(Refer to the Troubleshooting Guide in the operation manual for more help)

1. The LED on the IQmark Digital ECG module should be green during testing. If it is red, check the connection or replace the batteries, if it is a Serial type module.
2. If any of the I, II, III, aVR, aVL and aVF leads on the screen are noisy or flat lined, always check the limb lead electrodes for proper contact in this order: RL, LL, RA and LA. If a precordial lead is noisy or flat lined, check the limb lead electrodes first, and then check the corresponding chest lead electrode for proper contact.
3. If the noise or artifact still persists, turn on the AC, Drift and MYO filters. You can click the INST button to help resetting the baselines. (If the ECG module has the On/Off switch, then press the switch twice to turn Off and On the module to stabilize the baselines.)
Standard 12-Lead Patient Hookup Diagram

**Limb Lead Placement**

**RA (White/White)**
- Right lateral side of the upper arm below the shoulder.

**LA (Black/White)**
- Left lateral side of the upper arm below the shoulder.

**RL (Green/White)**
- Inside calf, midway between knee and ankle.

**LL (Red/White)**
- Inside calf, midway between knee and ankle.

**Chest Lead Placement**

1. **V1 (Red/Brown)**
   - Fourth intercostal place at the right margin of the sternum.

2. **V2 (Yellow/Brown)**
   - Fourth intercostal place at the left margin of the sternum.

3. **V3 (Green/Brown)**
   - Midway between V2 and V4 (on top of the 5th rib).

4. **V4 (Blue/Brown)**
   - Fifth intercostal place at the left mid-clavicular line.

5. **V5 (Orange/Brown)**
   - At the horizontal level of V4, at the left anterior line.

6. **V6 (Purple/Brown)**
   - At the horizontal level of V4, at the mid-axillary line.