MAC™ 600 Resting ECG Analysis System

Quick Reference Guide

Education Services
Clinical Development

Notice

The materials contained in this document are intended for educational purposes only. This document does not establish specifications, operating procedures or maintenance methods for any of the products referenced. Always refer to the official written materials (labeling) provided with the product for specifications, operating procedures and maintenance requirements.

Contents

AHA IEC
V2 C2

AHA IEC
V1 C1

AHA IEC
V3 C3

AHA IEC
V4 C4

AHA IEC
Alternative RA R

AHA IEC
LA L Alternative

AHA IEC
V6 C6

AHA IEC
V5 C5

AHA IEC
RA R

AHA IEC
LA L

AHA IEC
Alternative RL N

AHA IEC
LL F Alternative

AHA IEC
RL N

AHA IEC
LL F

Skin Preparation and Lead Placement
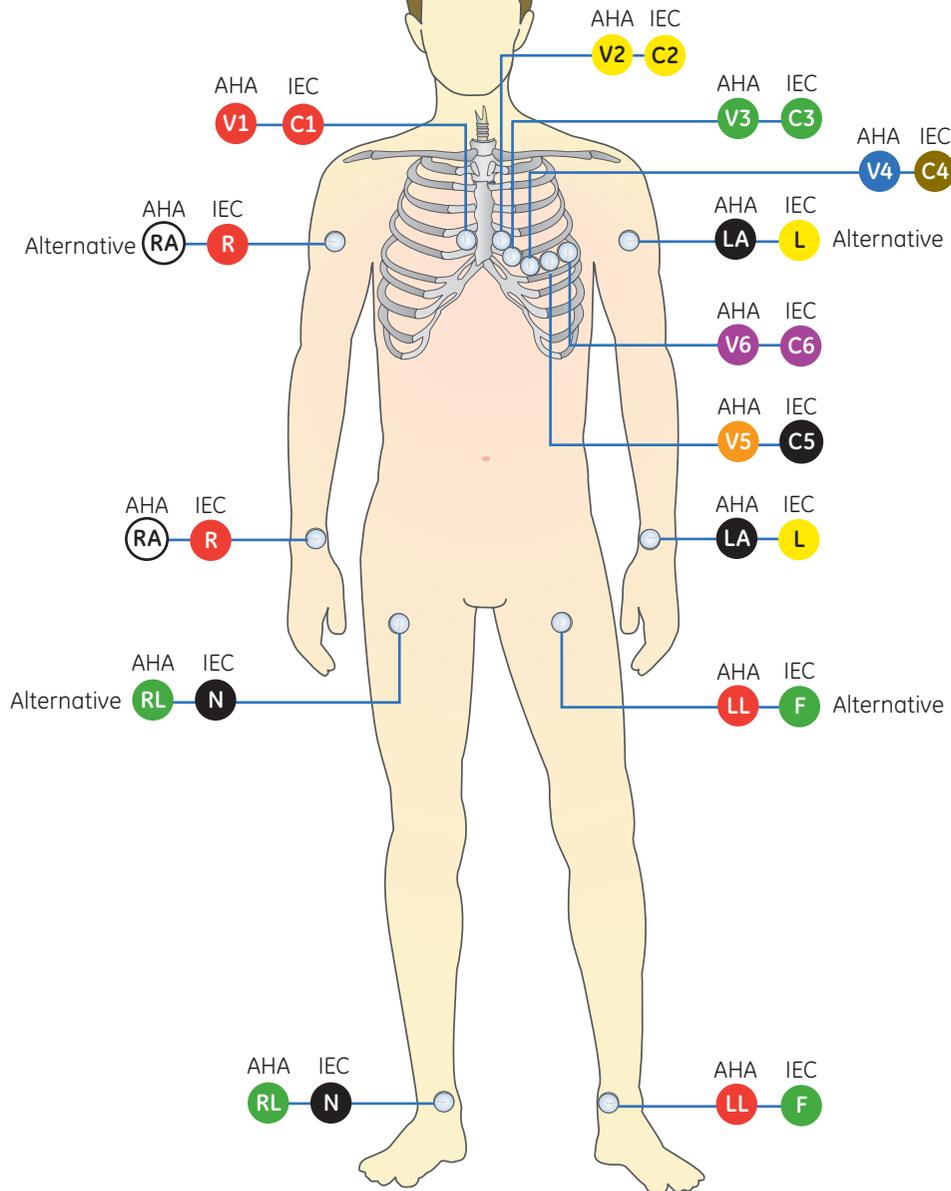
1. Shave any hair from each electrode site and degrease each electrode site with alcohol.

2. Dry skin completely.

3. Apply the leads on the prepared area.

4. Verify the leads are connected and working properly.

Table 1 **AHA and IEC Lead Placement**

AHA lead	IEC lead	Electrode Placement
V1 red	C1 red	Fourth intercostal space at the right sternal border.
V2 yellow	C2 yellow	Fourth intercostal space at the left sternal border.
V3 green	C3 green	Midway between C2/V2 and C4/V4.
V4 blue	C4 brown	Mid-clavicular line in the fifth intercostal space.
V5 orange	C5 black	Anterior auxiliary line on the same horizontal level as C4/V4.
V6 purple	C6 purple	Mid-auxiliary line on the same horizontal level as C4/V4 and C5/V5.
LA black	L yellow	Above left wrist (alternate placement: left deltoid).
LL red	F green	Above left ankle (alternate placement: upper leg close to torso).
RL green	N black	Above right ankle (alternate placement: upper leg close to torso).
RA white	R red	Above right wrist (alternate placement: right deltoid).

Press 'ECG' (Green) key to record an ECG.

0:29:40
5-Aug-2009

77 BPM

aVR   V1   V4
aVL   V2   V5
aVF   V3   V6

II
III

Patient Data   25 mm/s   10 mm/mV   More

3a

MAC 600

F1   F2   F3   F4

6

3b

1   2   3
4   5   6
7   8   9
esc   0   ←

1

7

3
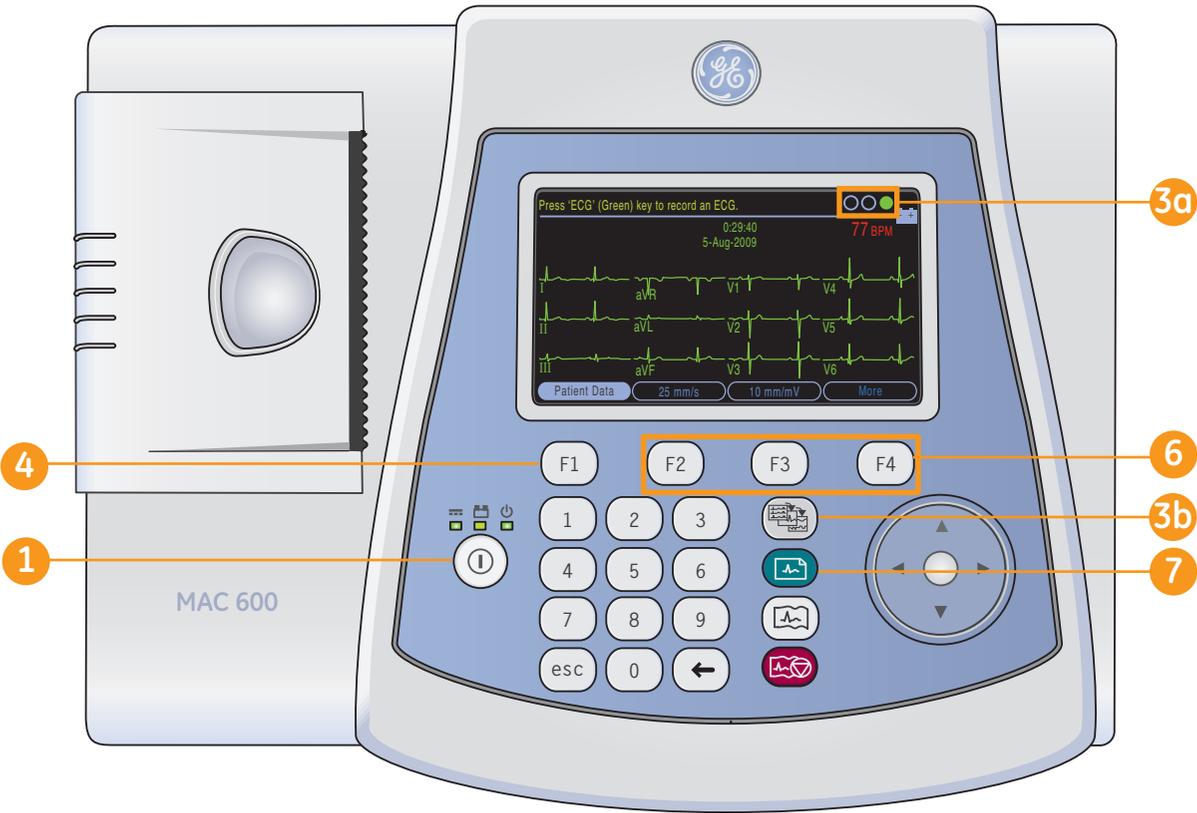
Acquire an ECG

1 Power the system on.

2. Prepare the patient. Refer to section **Skin Preparation and Lead Placement** for details.

3. Verify waveform quality by:

3a Checking **Hook-up Advisor**. Green (always right most circle) indicates a good quality waveform.

3b Press the **Leads** key to scroll through the leads.

4 Press **F1** to open the **Patient Data window**. Enter the patient **ID, DOB** and **gender** using the numbered keyboard and arrow pad.

• Press **F1** to insert a dash while entering the patient ID if needed.

• Press **F2** to insert a **+** symbol while entering the patient ID if needed.
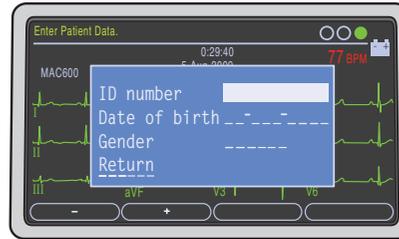
Color Display is a purchasable option.

Note! *Refer to the Operator's Manual for instruction on how to use Secondary ID, age and alfa-numeric input feature.*

**5.** Select **Return,** and press the center of the arrow pad to close the Patient Data window.
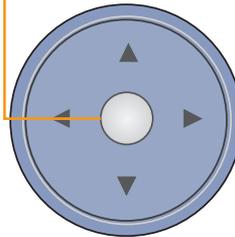
6 Use the **F** keys to make any necessary adjustments to:

• Speed **(F2)**

• Gain **(F3)**

• **More (F4) > Filter (F1)** to adjust Waveform Filter. Press **More (F4)** to return ECG Screen.

7 Press the **ECG** key on the keypad to record an ECG.

4
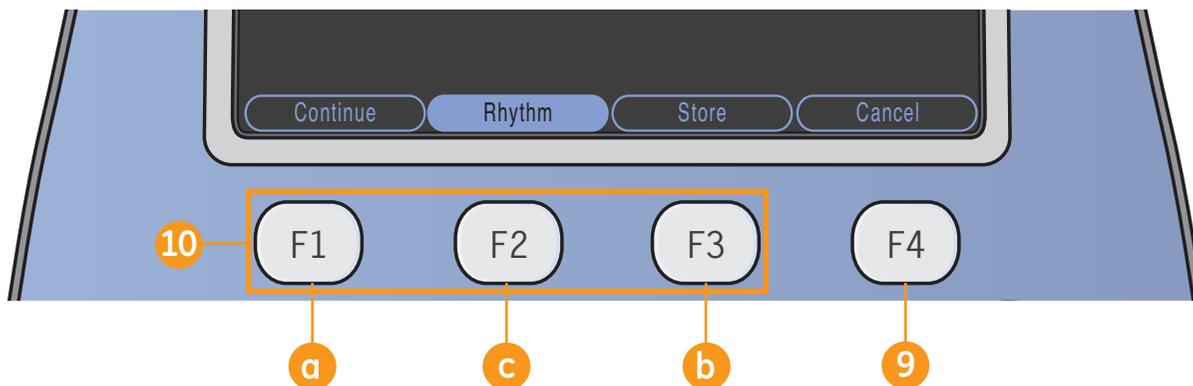
8. Press *Analysis (F2)* to view the Measurement and Interpretation information. Once you have pressed Analysis you see the F keys as displayed in the above illustration.

Note! *Analysis and Measurement are purchasable options.*

9 If after reviewing the ECG and Analysis if you wish to stop and acquire another ECG, press *Cancel (F4)* and press the *ECG* key on the keypad to record another ECG. Otherwise continue with step 10.

10 Other options from the Analysis window include:

a Press *Continue (F1)* to continue with the acquired 12 lead ECG.

b Press *Store (F3)* to store the ECG to the SD Card.

Note! *Storing to SD card is a purchasable option.*

c Press *Rhythm (F2)* to view the waveform.
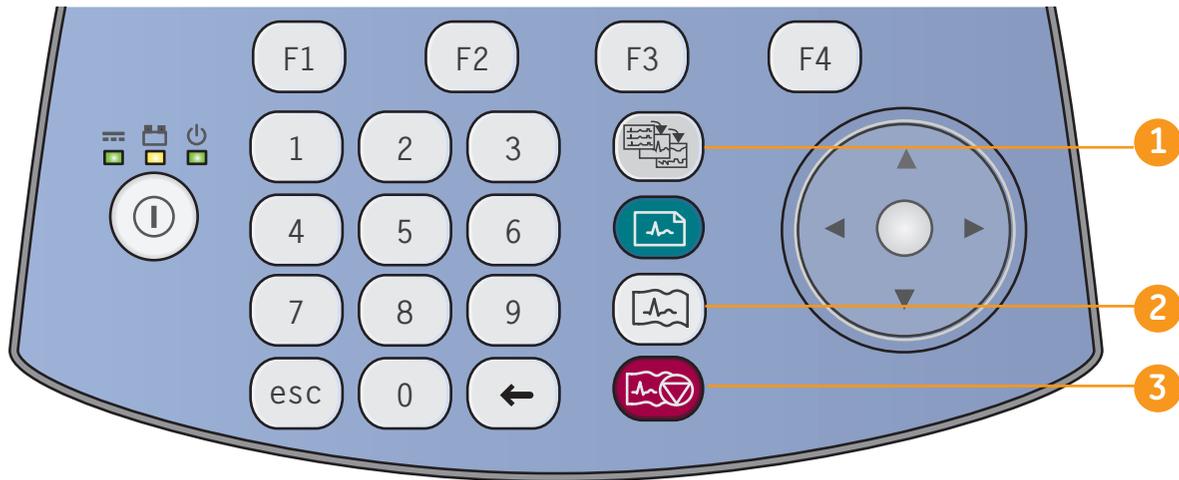
Print Continous Rhythm

1 Press the *Leads* key to select the desired 3-lead group for rhythm.

2 Press the *Rhythm* key on the Keypad to start the printing of continuous rhythm.

Note! If your display is showing the 12-lead or 6-lead presentation, pressing the *Rhythm* key will result in the display of 3 leads from the group configured as the autorhythm and will begin rhythm printing with those 3 leads.

3 Press the *Stop Writer* key on the keypad to stop the printing of the continuous rhythm.

6

Directory of files in SD card

File Manager

Directory of files in SD card

ID number	Date/Time	Sent
0000001	01- Aug-09 23:35:48	No
0000002	30-Jul-09 23:35:48	No
0000003	29-Jul-09 03:17:10	No
0000004	29-Jul-09 03:15:36	No
▼ 0000005	29-Jul-09 03:16:14	No

Total files: 20 Selected files: 1

Select	Select All	Report Setup	More

F1   F2   F3   F4

4   **5**   **3**
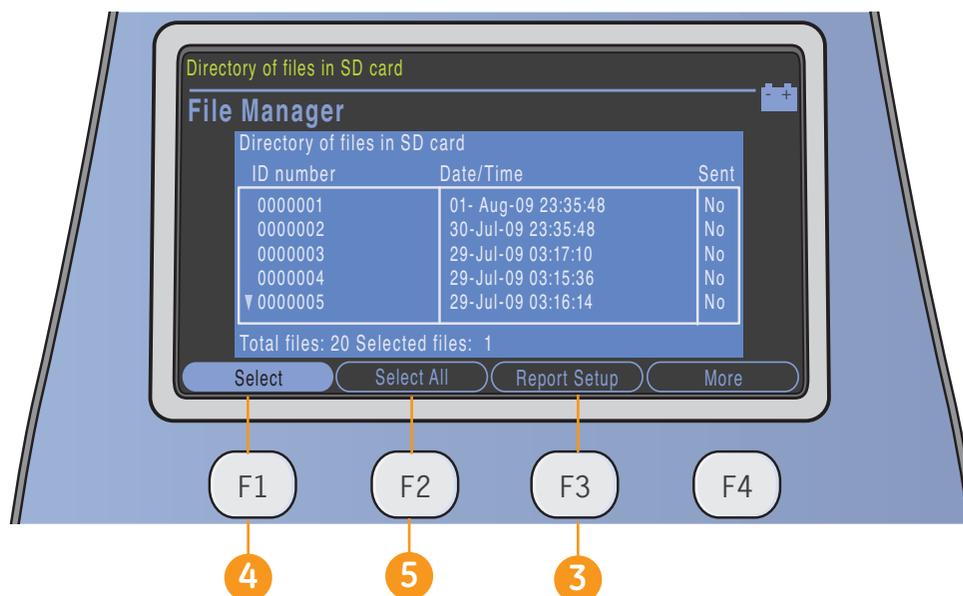
File Manager (Option)

1. From the startup screen press ***More (F4).***

2. Press ***File Manager (F3).***

3 Press ***Report Setup (F3)*** to select desired format for your printed reports.

    a. Press ***Report Format (F1)*** to open the reports selection screen.

    b. Use the arrow pad to go to the desired report.

Enter key

Arrow key
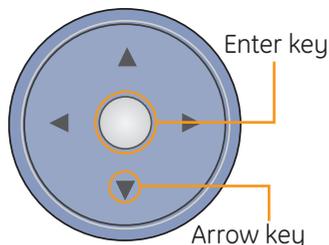
c. Enter ***1*** for each report you wish printed. You may enter a higher number if you wish more copies.

d. Select ***Return*** to save and exit screen.

e. Press ***More (F4).***

f. Press ***Return (F2)*** to get back to the main File Manager Screen.

4 Press ***Select (F1)*** to select individual reports. Use the arrow pad to navigate through the list and press the ***Enter*** key of the arrow pad to highlight the desired report. Use the same procedure to highlight multiple reports if desired.

5 If you wish to highlight all reports press ***Select All (F2)***.

7

Directory of files in SD card

File Manager

Directory of files in SD card

ID number	Date/Time	Sent
0000001	01- Aug-09 23:35:48	No
0000002	30-Jul-09 23:35:48	No
0000003	29-Jul-09 03:17:10	No
0000004	29-Jul-09 03:15:36	No
▼ 0000005	29-Jul-09 03:16:14	No

Total files: 20 Selected files: 1

| Print | Display | Transmit | More |

Selected report

F1   F2   F3   F4

1   **2**   **3**   **4**
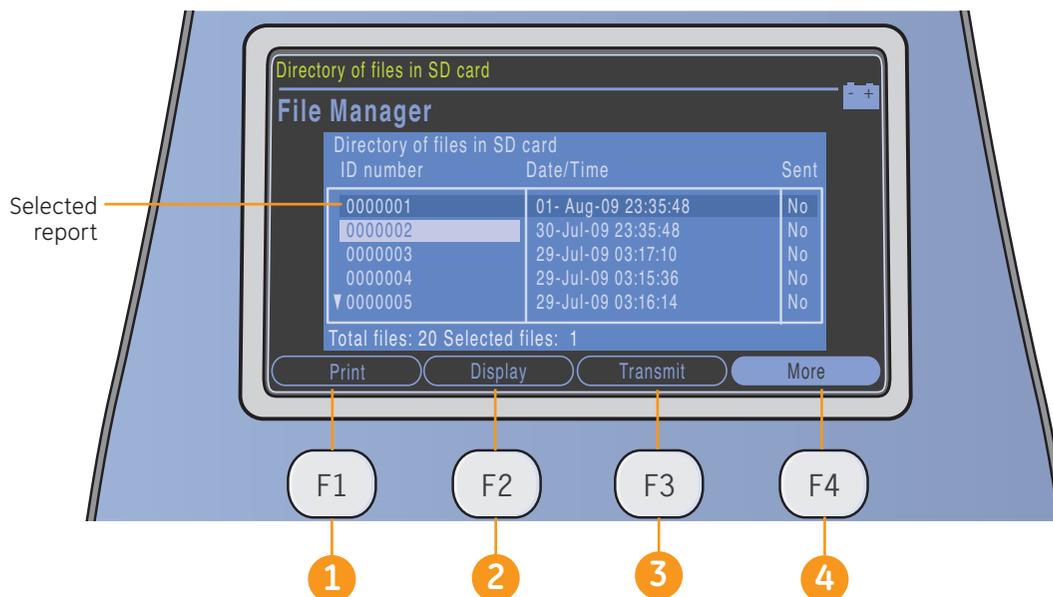
Note! *Your F key order may vary slightly from what is described based on your purchased options.*

Once you have selected a report(s) you have the following options:

1 **Print (F1):** prints the ECG of the selected report(s)

2 **Display (F2):** allows you to view the *Medians (F1), Analysis (F2)* or *Print (F3)* of the selected record(s).

3 **Transmit (F3):** allows you to transmit to a MUSE system or XML output via Serial Line.

Note! *Serial Transmission is a purchasable option.*

4 Select *More (F4)* then *Return (F2)* to get back to File Manager main screen.

8

Directory of files in SD card

File Manager

Directory of files in SD card		
ID number	Date/Time	Sent
▲ 0000001	01- Aug-09 23:35:48	No
0000002	30-Jul-09 23:35:48	No
0000003	29-Jul-09 03:17:10	No
0000004	29-Jul-09 03:15:36	No
▼ 0000005	29-Jul-09 03:16:14	No

Total files: 20 Selected files: 1

| Delete | Save XML | Save PDF | More |

F1   F2   F3   F4

a   b   c   d
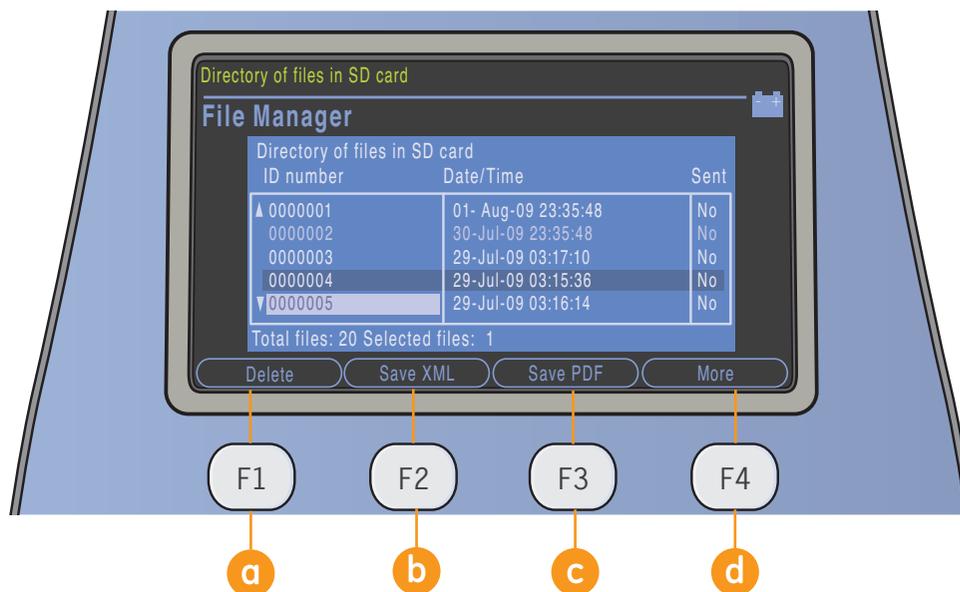
5. **More (F4):** Gives more selections including:

   a **Delete (F1):** press to delete record. User must enter password to delete record(s) from system

   b **Save XML (F2):** saves record to SD card in XML format

   Note! *Save to XML is purchasable option.*

   c **Save PDF (F3):** saves record to SD card in PDF format

   Note! *Save to PDF is purchasable option.*

   d **More (F4):** returns previous screen. Press *Return (F1)* to return to File Manager main screen.

6. From the main File Manager screen press **More (F4)** then press *Resting ECG (F3)* to return to the *Resting ECG* screen.

9

GE Healthcare
9900 Innovation Drive
Wauwatosa, WI 53223
USA

www.gehealthcare.com

imagination at work

C ϵ
0459