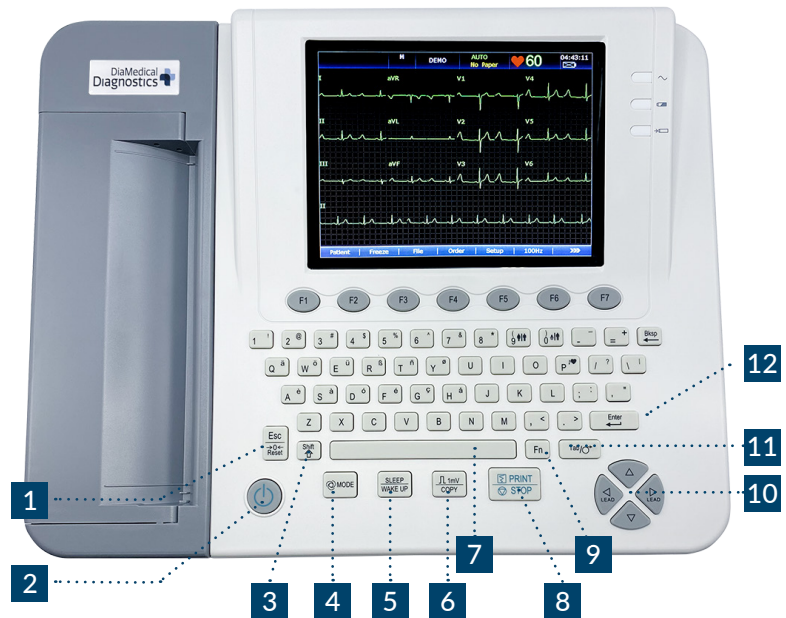# DiaMedical Diagnostics

INFINITY 1200
ECG Machine
Quick Reference Guide

⬡ PRODUCT HIGHLIGHTS

- The Infinity 1200 ECG Machine from DiaMedical Diagnostics features an 8.4″ color LCD display and alphanumeric keyboard with one-touch operation

- Onboard PDF creator and barcode scanner support

- Built-in thermal recorder with extended printing when arrhythmia is detected

- Integrated analyzing and diagnostic software with Glasgow Interpretation

- Large internal memory holds up to 200 EKGs and can be enlarged by USB flash disk

- 120s real-time ECG waveform freezing and review

- PDF, SCP, FDA-XML and DICOM data transmission to PC via LAN/Wi-Fi

- Includes AHA banana connector cable with ten (10) universal clips, pack of one hundred (100) resting tab electrodes, and one hudred (100) sheets of Z-fold recording paper

- Includes a two (2) year manufacturer warranty for device and a one (1) year warranty for accessories

ESSENTIAL KEYS

1 **Escape/Reset Key:**
a. Press to cancel selected operation
b. A large polarization voltage may cause baseline drift. On the main screen, press the ESC key to decrease the polarization voltage and draw the baseline to zero quickly

2 **Power Key:** Press to turn machine on and off

3 **Shift Key:** Press SHIFT + TAB together to move cursor backward

4 **Mode Key:** Press to select auto, manual, rhythm, R-R analysis or OFF mode

5 **Sleep Key:** Press to turn resting state on to conserve power, press again to reawaken

6 **Copy Key:** In auto mode, press to print another copy of the last ECG report

7 **Spacebar:** Press to add a space between typed characters or select/deselect checkboxes

8 **Print Start/Stop Key:** Press to start and stop printing. Recorder will stop automatically after printing a complete 12 lead ECG report

9 **Function Key:** Press to input special characters

10 **Arrow Keys:**
a. Press to move the cursor up, down, left and right
b. In manual mode, press the up and down arrows to switch the lead groups

11 **Arrow Keys:**
a. Used to move the cursor from one text box to another: Press TAB to move the cursor forward, and SHIFT + TAB together to move the cursor backwards
b. Feeds recorder paper: When the main screen is displayed and the paper marker is set to YES, press the TAB key to advance the recorder paper to the next black marker. If the paper marker is set to NO, press the TAB key to advance the paper 2.5 cm

12 **Enter Key:** Press to confirm the selected operation

MAIN SCREEN DISPLAY ICONS

1. Patient Name:
Up to 60 ASCII characters can be displayed here

2. Patient ID Number:
Up to 30 ASCII characters can be displayed here

3. Patient Age:
Can be displayed in months or years

4. Patient Gender:
Options include Male, Female and Empty

5. Hint Information 1:
Includes DEMO Mode, Module Error and Overload

6. Hint Information 2:
Includes No Paper, Paper Error, Battery Weak, Sampling, Analyzing, Recording, Testing, Learning, Transmitting, Transmit Fail, Detecting, Memory Full, U Disk, USB Printer, Lead Off and USB Scanner

7. Work Mode:
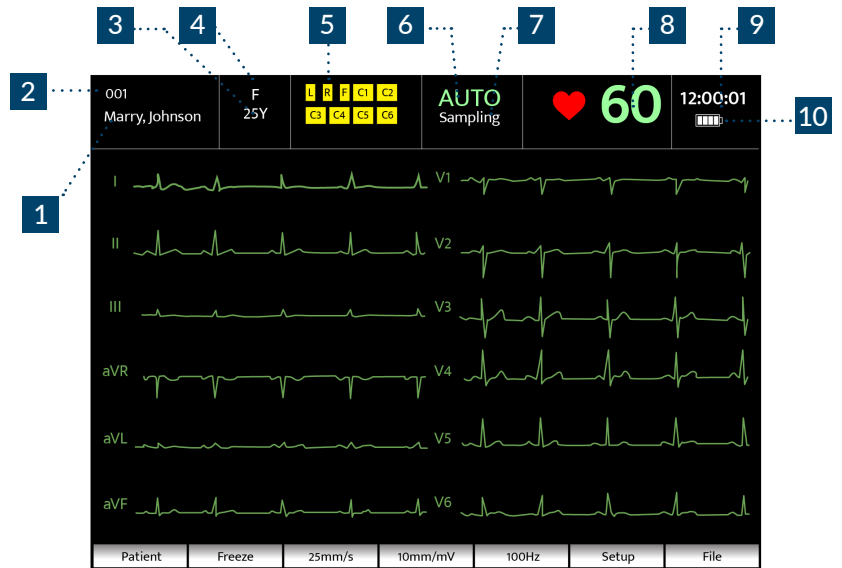Options include Male, Female and Empty

8. Heart Rate:
Displays patient's current heart rate

9. Current Time:
Can be displayed in 12 hour or 24 hour format

10. Battery Symbol:
Displays current battery capacity

KEYBOARD FUNCTION KEYS

F1	Patient information	First/Last names and medications - 30 ASCII character limit Department and physician/technician names - 35 ASCII character limit
F2	Freeze waveform	Freeze ECG waves displayed on the main screen
F3	Speed selection	Manual mode: 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s or 50mm/s Auto & rhythm modes: 25mm/s and 50mm/s
F4	Gain	2.5 mm/mV, 5 mm/mV, 10 mm/mV, 20 mm/mV, 10/5 mm/mV or AGC
F5	Filter	EMG Filter: 25Hz, 35Hz or 45Hz Lowpass Filter: 75Hz, 100Hz or 150Hz
F6	System Setup	Work mode, Filters, Recording, Patient information, Data transmission, Leads, Display/Sounds, Date/Time, Files and Maintenance
F7	File Manager	Search for files and transmit/export/delete data

AVAILABLE ACCESSORIES

SE-12P	Z-fold Recording Paper - Pack of 1000
MT-810	Luxury Trolley with Shelf and Cable Arm
MT-207_plate_ekg	Center Pole Trolley with Basket and Locking Casters
83.61.360597	SE-1515 Data Management System for Bidirectional Computer Communication

PRODUCT SPECIFICATIONS

Display	8" multicolor LCD screen 800×600
Overall Dimensions	16.5" W x 13" D x 4.7" H
Weight	2.5 kg with battery
Power	100V-240V 50Hz/60Hz
Battery	Rechargeable 14.8V 2200mAh Lithium-Ion battery
Printer	Thermal dot-matrix/210 × 295 mm Z-fold paper
Printer Speed	5, 6.25, 10, 12.5, 25, 50 mm/s
Acquisition Mode	12 lead simultaneous
Resolution	2.52uV/LSB
Gain	1.25, 2.5, 5, 10, 20, 10/5 mm/mV, AGC
Pacemaker	±750µV to ±700 mV/50µs to 2.0 ms
Filters	AC, DFT, EMG, LOWPASS
Report Formats	PDF, XML, DICOM, FDA-SCP
Data Transmission	Wi-Fi, Ethernet, RS232
HIS connection	DICOM Worklist/DICOM Storage/HL7/GDT
Wi-Fi	2400-2497MHz/6 - 17dBm

HINT INFORMATION

Lead off	Electrodes have fallen off the patient or the cable has fallen off the machine
Battery weak	Battery power is too low
No paper	Recorder paper is not loaded or has run out
Paper error	When Paper Marker is set to YES, the recorder cannot find the next black marker
Testing	ECG data is being sampled periodically
Sampling/Analyzing/Recording	ECG samples are being sampled, analyzed and recorded
Learning	Self-studying arrhythmia arithmetic in Trigger Sample Mode
Detecting	Examining arrhythmia data in Trigger Sample Mode
Transmitting	ECG data is currently being transmitted to the PC wirelessly or through the serial cable
Transmit Fail	ECG data has failed to be transmitted to the PC
Memory Full	There are more than 200 ECG recordings in the File Manager
Module Error	There is something wrong with the signal sample module
DEMO	The system is in demonstration mode
Overload	The direct current offset voltage on an electrode is too high
U Disk /USB Printer /USB Scanner	A U disk, a USB printer or a bar code reader is connected to the USB interface

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