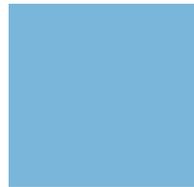
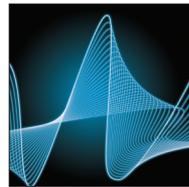
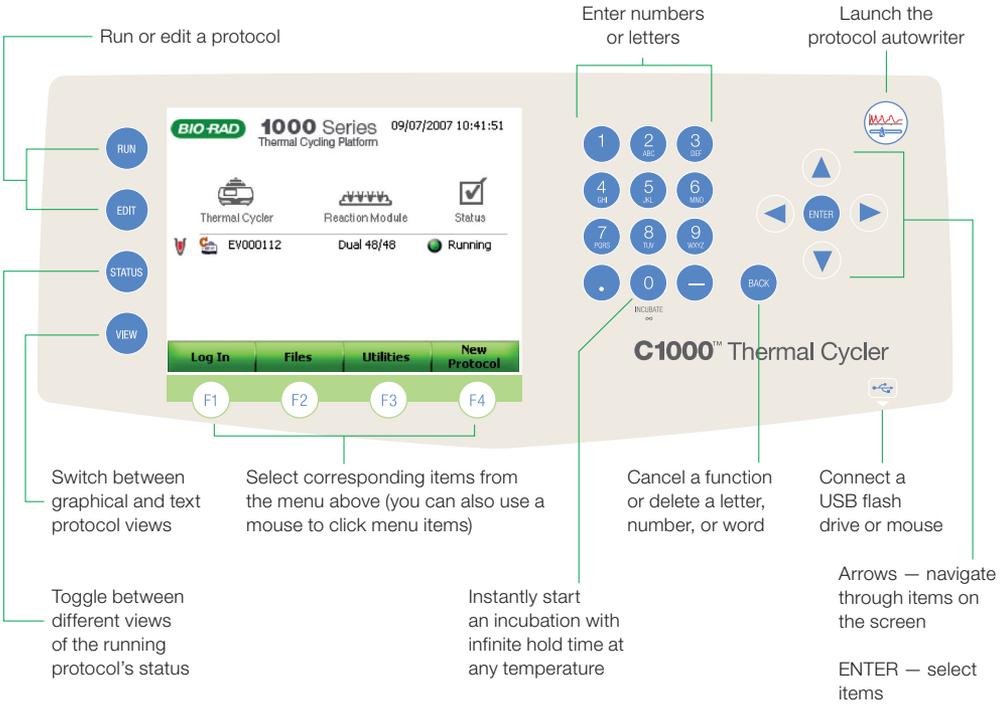


AMPLIFICATION
C1000™
Thermal Cycler
Quick Guide



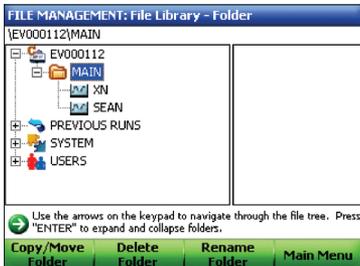
Main Menu and Controls

Press the buttons on the front control panel to perform the functions shown in the diagram below.

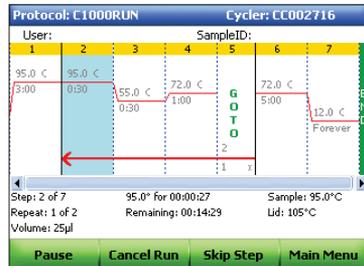


Running a Protocol

1. Press RUN.
2. Navigate to a folder in the File library. Highlight and press ENTER to expand or collapse the folder.
3. Select a protocol, and press ENTER or RUN.



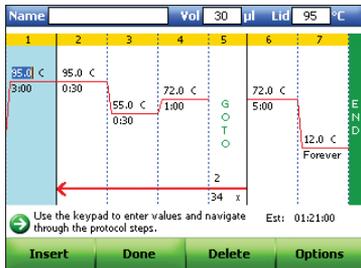
File library



Run status

Creating or Editing a Protocol

1. Select New Protocol (F4), or press the EDIT button and select a protocol.
2. Navigate to a desired field to highlight and edit a value.
3. If desired, choose to Insert a step (F1), Delete a step (F3), or add Options (F4).
4. When inserting a step, select TEMP (F1) for a temperature step, GRAD (F2) for a gradient step, or GOTO (F3) for a GOTO step.
5. Press RUN to run the protocol without saving, or select Done (F2) to select a folder location and save.



Graphical mode

Name	Vol	µl	Lid	Temp
1	95.0	C	For 0:30	
2	55.0	C	For 0:30	
3	72.0	C	For 1:00	
4	GOTO 2, 55 more times			
5	72.0	C	For 5:00	
6	12.0	C	Forever	

END

Use the keypad to enter values and navigate through the protocol steps. Est: 01:20:00

Buttons: Insert, Done, Delete, Options

Text mode

Using the Protocol Autowriter

The protocol autowriter wizard automatically suggests a cycling protocol with hot start, initial denaturation, annealing, and extension steps, based on parameters you input and standard PCR guidelines, and it can create a faster protocol for you.

1. Enter the primer annealing temperature (T_a), amplicon length, and polymerase. To calculate the primer T_a , select the T_a calculator (F1).

Protocol AutoWriter
Enter Target Values / Enzyme (Required):

Amplicon Length: 500 bp iTag iProof Other

Annealing Temperature: 60.0 °C

Enter required values and any desired optional values

Buttons: Ta Calc, Next, Main Menu

2. Select the desired protocol speed: standard, fast, or ultrafast.

Protocol AutoWriter
Target: 500bp Anneal: 60°C Enzyme: iProof

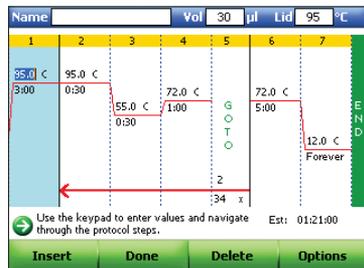
Standard Fast Ultrafast

Estimated Run Time: 00:25:00

Select speed setting using left and right arrows; Press "VIEW" to see the protocol

Buttons: Back, Next, Main Menu

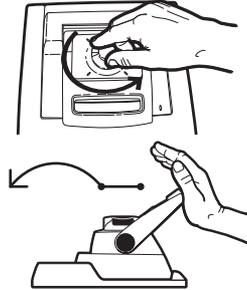
3. Save the suggested protocol. (Edits can also be made on this screen.)



Opening and Closing the Heated Lid

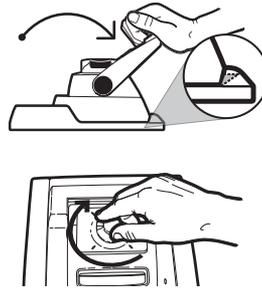
Opening the Lid

1. Turn the knob counterclockwise to raise the inner lid.
2. Raise the handle to the up position.
3. Push the handle toward the back of the instrument to unlatch the lid, then lift the handle up.



Closing the Lid

1. Using the handle, push the lid down until it latches securely (see inset).
2. Lower the handle to the horizontal position.
3. Turn the knob clockwise until the inner lid contacts the vessels, then add one-half turn for sealing tape or one-quarter turn for caps.



Purchase of this instrument conveys a limited non-transferable immunity from suit for the purchaser's own internal research and development and for use in applied fields other than Human In Vitro Diagnostics under one or more of U.S. Patents Nos. 5,656,493, 5,333,675, 5,475,610 (claims 1, 44, 158, 160-163 and 167 only), and 6,703,236 (claims 1-7 only), or corresponding claims in their non-U.S. counterparts, owned by Applied Biosystems. No right is conveyed expressly, by implication or by estoppel under any other patent claim, such as claims to apparatus, reagents, kits, or methods such as 5' nuclease methods. Further information on purchasing licenses may be obtained by contacting the Director of Licensing, Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California 94404, USA.

This product is covered by one or more of the following U.S. patents or their foreign counterparts owned by Eppendorf AG: U.S. Patent Nos. 6,767,512 and 7,074,367.

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