Kalstein®

Thermal Cycler

Model YR01868

Instruction Manual

Thank you very much for purchasing our Thermal Cycler YR01868.

Please read the “Operating Instructions” and “Warranty” before operating this unit to assure proper operation. After reading these documents, be sure to store them securely together with the “Warranty” at a hand place for future reference.

 Warning: Before operating the unit, be sure to read carefully and fully understand important warnings in the operating instructions.

YR01868 Simple Operation Manual

This YR01868 PCR instrument can be operated by mouse or finger touch.

Step 1: Make sure the power supply is connected correctly.

Step 2: Start up. Turn on, the instrument log into the “Main Menu”Interface automatically (Figure 1).

Step 3: Create File. Click the “File” and then choose “Create file” (Figure 2).

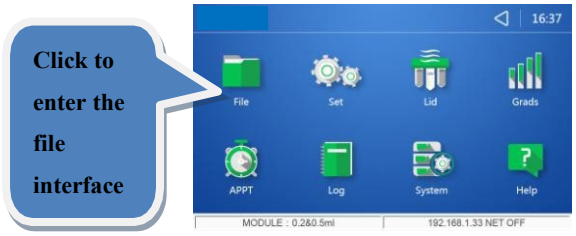

Figure 1

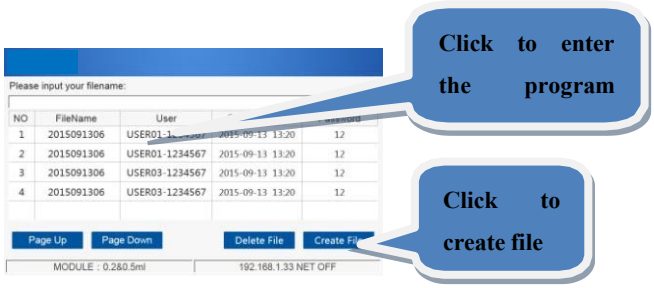

Figure 2

Step 4: Input the file name, username, password (Figure 3).

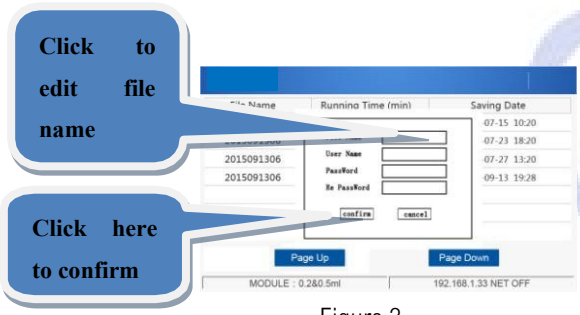

Figure 3

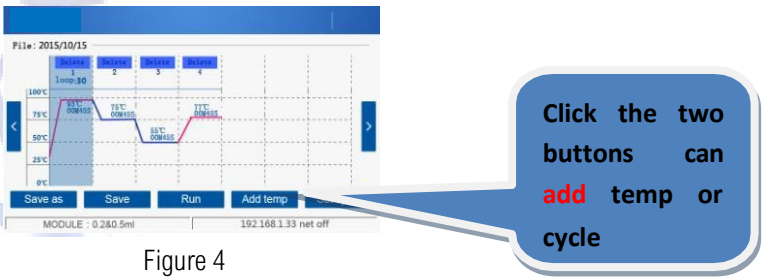

Figure 4

Step 5: After logging into the programming interface, click the “Add Temp” or “Setcycle” button to add temp point or cycle. (Figure 4)

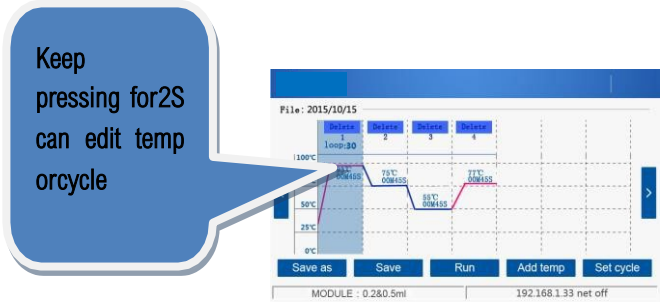

Figure 5

Figure 6

Step 6: Keep pressing the temp point (Figure 5) for 2S, it popups the window (Figure 6) toedit the temp or cycle of the added temp point (Figure 5).

Step 7: Click the “Delete “button (Figure 7), its popups the window (Figure 8) to delete the“temp” or “cycle” of the temp point.

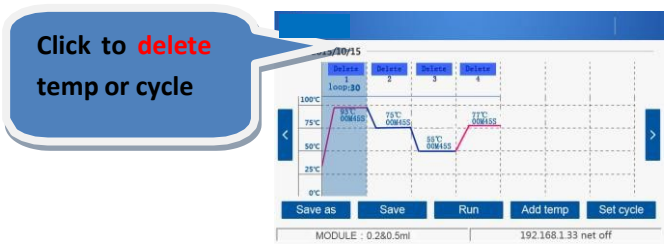

Figure 7

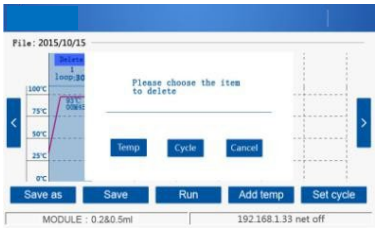

Figure 8

Step 8： Run the file Click “Run “button to run the file (Figure 9).

Step 9: When file running, click the “pause” button if need to pause the file. (Figure 10)Step 10: Close the program file, click the “stop” button to stop the file. (Figure 9)

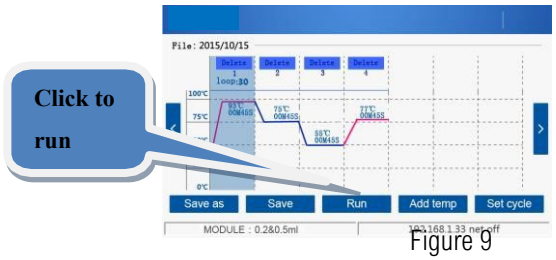

Figure 9

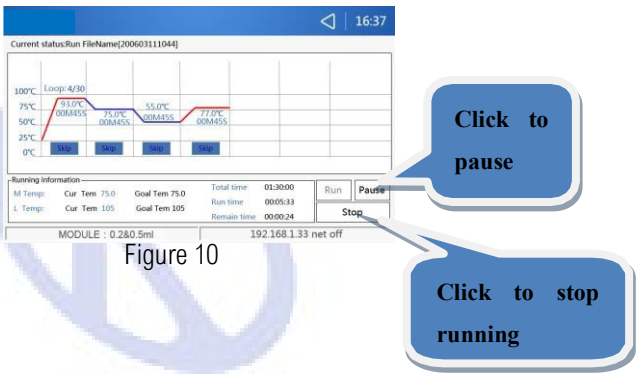

Figure 10

Notice:

1. Power supply requirements of the instrument: 220±22V, 50/60HZ!

2. When the instrument is working, do not place any items within 30CM in order to avoid the influence on the experimental result!

THE YR01868 PCR INSTRUMENT MAIN SPECIFICATIONS

- ✓ The thermal cycler operates through a single-phase supply of 230V/50Hz, and is delivered complete with a 3-core cable, terminated with a 3-pin plug in accordance with BS1363A.
- ✓ Block format is capable of accepting 96-well plates, 96 X 0.2mls tubes and up to 77×0.5ml
- ✓ The thermal cycler is capable of having an optional temperature verification system.
- ✓ The heating rate at the block is 3°C/second or better and the cooling rate must be 2°C /second or better.
- ✓ The gradient temperature range is from 30°C to 99°C or wider.
- ✓ The gradient range is from 1°C to 20°C or wider.
- ✓ The temperature gradient operates on the 12 columns.
- ✓ The block temperature homogeneity is as stated below or better: At the temperature range of 20°C to 72 °C it should be ≤ ±0.3°C
- ✓ At the temperature 95°C, is ≤ ±0.4°C
- ✓ The block temperature accuracy is ± 0.2°C or better.
- ✓ The temperature control range of the block is at least 4°C to 99°C or wider.
- ✓ The heating technology of the block is of the feature of peltier elements with triple circuit technology.
- ✓ The lid temperature range is from 37°C to 110°C or wider.
- ✓ Lid descent and closing pressure is of flex lid technology with thermal sample protection
- ✓ The thermal cycler has an Ethernet and USB interfaces.
- ✓ The thermal cycler is provided with a dust cover.

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