

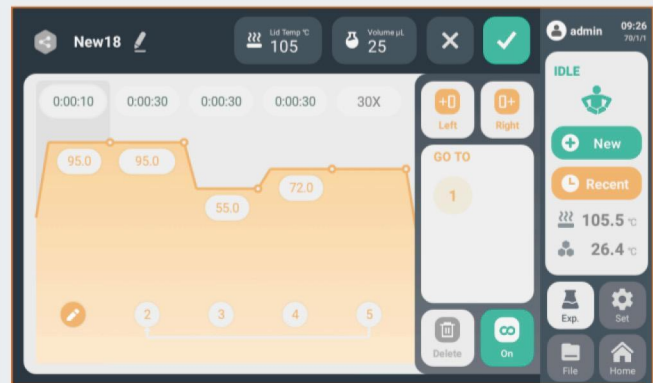
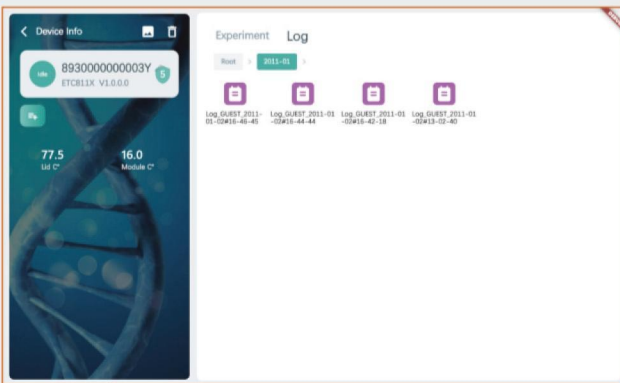
ETC3 Thermal Cycler

ETC3 is a high - performance model built on our company's classic PCR platform. While inheriting the classic features, it incorporates more powerful functions designed for clustered users, with super interaction between the PC side and the instrument side, centralized monitoring of the running status, centralized batch distribution of programs, generation of operation record reports, user permission management, etc., bringing you a more ultimate, smooth, and portable operation experience!

Specially designed for clustered users

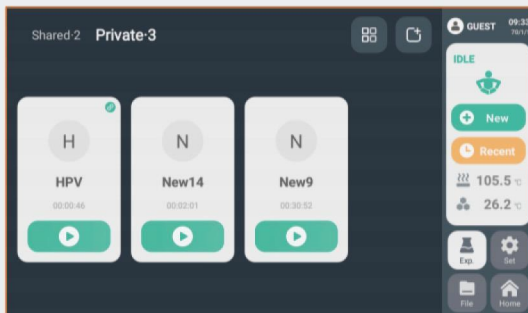
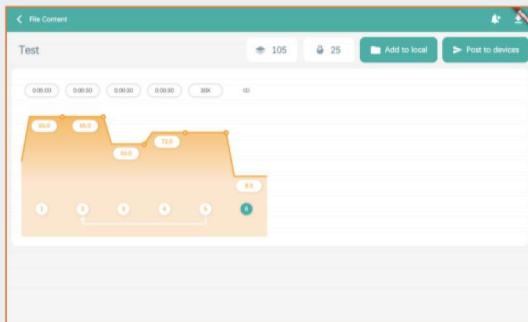
Features

01 Windows & Android Operation Interface, User - friendly and Powerful



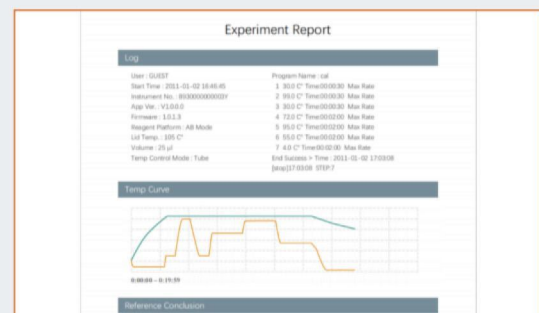
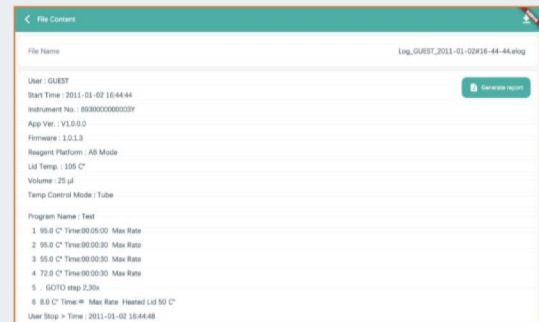
02 Centralized Batch Program Distribution

The program file can be distributed to the online thermal cyclers through the Windows software, and multiple instruments can be selected for batch distribution. It only needs to be edited once and can be used on multiple thermal cyclers. The distributed experimental files will be marked and pinned to the top for easy identification.



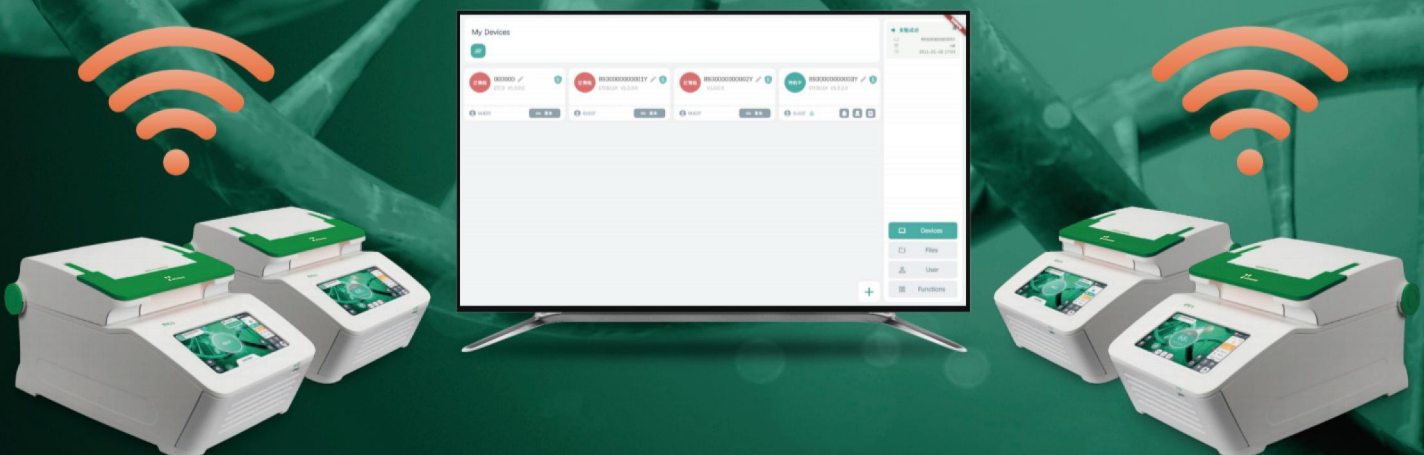
03 Generation of Operation Record Reports

After opening the instrument log file with the Windows software, click the generate report button to generate a PDF report. The report includes not only the complete text content of the log file but also records the temperature curve.



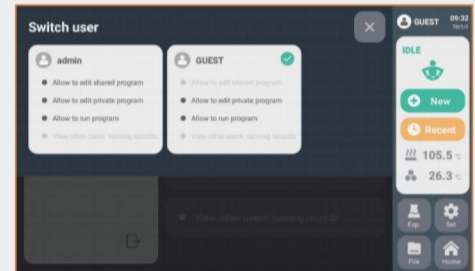
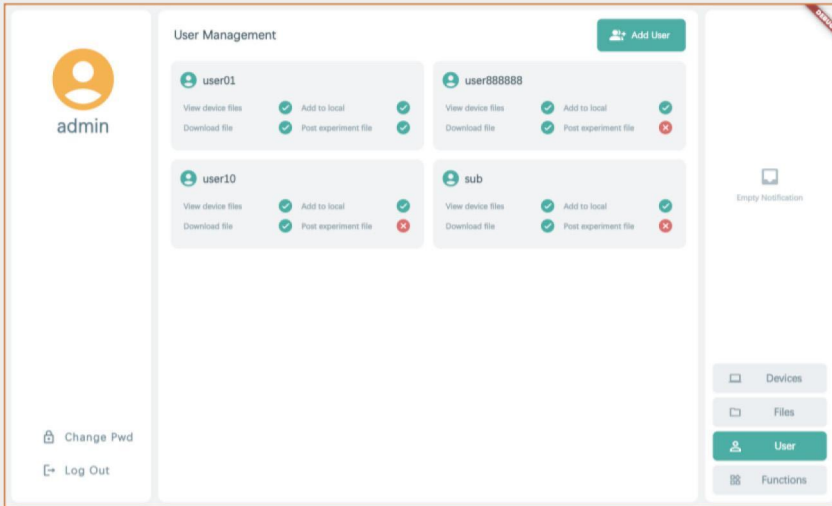
04 Centralized Monitoring of Operating Status

Monitor the running status of the thermal cycler through the Windows software, record the operation results after logging in, and receive fault notifications. There will also be a voice prompt after the operation is completed.



05 User Permission Management

Both the Windows software and the thermal cycler software have user permission management functions, and the administrator user can customize the configuration according to the usage requirements.



06 Remote File Viewing and Downloading

Monitor the running status of the thermal cycler through the Windows software, record the operation results after logging in, and receive fault notifications. There will also be a voice prompt after the operation is completed.

Performance Parameters

Basic Parameters of ETC3				
1	Model	ETC821	ETC821-384	ETC821-***
2	Blocks	0.2ml*96 wells, Aluminum	384 wells, Aluminum	In-situ or flat
3	Matching Consumables	96 Microplate(non-skirt/semi-skirt, except full skirt) Single/8-strip/12-strip tubes (tall/short tubes, flat/dome tubes)	384 Microplate	Customizable
4	Input power	100-240V ~ 50/60Hz, 600VA		
5	Dimension (L*W*H)	Product size: 427*288*227mm Carton size:540*450*385mm		
6	Weight	Net Weight: 9.7kg Gross weight: 14.5kg		

Block thermal performance of ETC3		
7	Temperature control accuracy	≅ ±0.1°C
8	Block temperature precision	≅ ±0.1°C
9	Block temperature uniformity	≅ ±0.3°C@55°C
10	Max. ramp rate	≥5°C/s
11	Avg. ramp rate	≥2°C/s
12	Temperature Control Technology	3 Peltier independently control. Distributed auxiliary heating on block edge.

Performance Parameters

Features of ETC3			
13	Block control mode	Tube (Reagent volume setting) / Block.	
14	Block temperature range	0-105°C	
15	Hot lid temperature range	30-105°C, ON/OFF	
16	Time setting range	1s-8h59m59s, "∞"means infinite	
17	Auto hot lid	Yes. Auto setting temperature of the hot lid according to the PCR parameter.	
18	Real-time curve	Yes. Display dynamic temperature curve of block and hot lid.	
19	Gradient range/span	12 columns of gradient/30-99°C/1-42°C, just set the leftmost and rightmost column temperatures, others are auto computed.	
20	Temperature touch down	Yes. ±0.1~±10°C/Cycle	
21	Time touch down	Yes. ±1~±120s/Cycle	
22	Waiting for operation	Yes. Auto pause and hold temperature waiting for user operation according to program.	
23	Cycles setting range	1-150X, Non-overlapping triple nested cycles can be set.	
24	Adjustable ramp rate	Yes. 0.1-3.5°C/s	
25	Step setting range	1-100	
26	Memory capacity	Max 1000 folders, each folder includes max 1000 files.	
27	Wizard template	Yes. The wizard template guides editing and prompt errors.	

File management of ETC3			
28	Administrator	Create user account, set password, software upgrade, system reset.	
29	Guest	No password	
30	User	Create accounts as needed. Data will be protected independently.	
31	Read-only protection	Yes. File name suffix # makes files read-only.	
32	Run log and export	Yes. including the running program, running time, process actions, temperature curves, and logs can be exported as quality records..	
33	Run history	Yes	
34	Editing during runtime	Yes. Other applications can be edited during run.	
35	File template	Multiple editable template programs for users.	
36	USB interface	Yes. Files can be imported / exported with one click. Easy exchange files between PCR machines. Software upgrade.	

More features of ETC3			
37	Display	7 "highly sensitive capacitive touch Android screen.	
*	38	User friendly interface	Yes. Dynamic water wave progress bar, animated operating status, breathing light indication, buzzer prompt.
*	39	Screen lock	For large - scale users, to prevent accidental operation or manual termination by others during operation, non - guest users can lock the screen with a password and unlock it to operate the device.
40	Easy interfaces switch	Simple main interface, operating interface, dynamic curve interface and engineering interface.	
41	Inhibit Non-specific amplification	Yes. Before running the cycle program, the block is cooled to 10°C until the hot lid temperature get set value during hot lid warming up.	
42	Tube mode	Yes. Precise control according to reagents volume.	
43	Adaptive lid	Auto adaptation to various heights of tubes (high/low/flat top/dome tubes).	
44	Smart gradient	Yes. Dynamic power control ensures that the temperature of each column reaches the target simultaneously.	
45	Self-test when power on	Yes	
46	Auto report after running	Yes	
47	Self-diagnosis and report	Yes	
48	Soaking after running	Yes. The lowest soaking temperature is 0°C.	
49	Memory function of power-down	Yes	
50	Total time / Remain time prediction	Yes	
*	51	Peltier life warning	Yes, assess Peltier's health status automatically and give maintenance suggestions.
52	Block temperature calibration	Yes. Engineering mode only.	
53	Key tone	On/off	
54	Screen brightness adjustment	Yes	
55	System	Including system configuration, self-test, factory setting, software upgrade, engineering interface (Engineering mode only).	
56	Help	Product features, software features, quick guide, troubleshooting, contact information.	
57	Interface language	Chinese / English switch freely.	
*	58	One - click Incubation	A quick incubation program is permanently resident on the home page, can be started with one click, and temperature and time parameters can be edited.
59	Heating Lid Preheating	The preheating temperature can be set, and the heating lid temperature is maintained when idle to reduce experimental time.	
60	Configurable Guest Mode	The administrator can turn off the guest mode, and after turning it off, users must log in to use the device.	
*	61	Cluster Control	Multiple devices can be monitored for status, programs can be issued, plans can be set, reports can be generated, and batch screen locking/unlocking can be performed on the computer side.
62	WeChat Service	Yes. User can contact us by sending photos to WeChat when errors occur.	