			Basic Param	eters of ETC821D			Block the	ermal performance of ETC821D
1	Mod	Model ETC821D					Temperature control accuracy	≦±0.1°C
2	Bloo	cks	2*0.2ml*48 well		8	Block temperature precision	≦±0.1°C	
3	Mat	tching Consumables 2*48 wells, single tube, 8-strip tubes			non-skirt, semi-skirt.	9	Block temperature uniformity	≦±0.3°C@55°C
4		ut power	100-240V~50/6			10	Max. ramp rate	≥5°C/s
5		nension L*W*H	427*288*227 mr			11	Avg. ramp rate	≥2°C/s
6		Weight	9.5kg			12	Temperature Control Technology	Peltier
					Features of			
		13 E	Block control mode		Tube (Reagent volume	e setting) /	Block	
			Block temperature r		0-105°C			
		15 H	lot lid temperature	range	30-105°C, ON/OFF			
		16 T	ime setting range		1s-9h0m0s, ∞ means f	forever		
	*	17 A	luto hot lid	Yes. Auto setting temperature of the hot lid according to the PCR parameter.				
		18 F	Real-time curve		Yes. Displays dynamic	temperat	ure curve of block and hot lid.	
		19 T	emperature touch	down	Yes. ±0.1-±10°C/Cycle	9		
		20 T	ime touch down		Yes.±1-±120s/Cycle			
		21 V	Waiting for operating	2	Yes. Auto pause and ho	old tempe	rature waiting for user operation acco	ording to program.
		22 (	Cycles setting range		1-150X, Non cross dual	l nest loop	s available.	
			Adjustable ramp rate	2	Yes. 0.1-3.5°C/s, Consta	15.0		
			Step setting range		1-100		7	
			Memory capacity		Max 1000 folders, each	folder inc	cludes max 1000 files.	
			Vizard template				editing and prompt errors.	
			Double-block indepe	endent operation		and the same of the same of		
		27	ouble block macpe	ndent operation Yes, Double-block display, independent operation.				
					File manage	ement of	ETC821D	
	*	28 A	Administrator	Create user account, set password, software upgrade, system reset.				
		29	Guest		No password			
		30 L	Jser		Create accounts as nee	eded. Data	will be protected independently.	
	*				Yes. File name suffix #	makes file	s read-only.	
		100 May 100 Ma			ns, runnin	g times and operations.		
	*	33 Run history Yes.					•	
		34 E	diting during runtin	ne	Yes.			
			ile template		Provide programmable	e template	es.	
			JSB interface	Yes. Files can be imported / exported with one click. Easy exchange files between PCR machines. Software upgrade.				
							DESCRIPTION OF THE PROPERTY OF	
	27	Display		7 "MARICA CA000 LEE	More feat			
4	37	Display		7 "WVGA 64000, LED backlight, high sensitive touch screen.  Yes. Dynamic temperature and color background, animation running status, breathing light indication, buzzing prompt.				
•	30						0 , 0 0	01
	39	Screen lock					eriment, the operator can lock the screen so th	
a.	40	O Faculatorforce		the click on the screen will not respond until it is unlocked with a password.  Simple main interface, operating interface, dynamic curve, engineering interface.				
	40							huse and and value during but I'd
The Control of the Co	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 vol						
	43	Adaptive lid		Auto adapts to various heights of tubes (high tube, low tube, flat top tube and dome tube).				
	44	Self-test when power on		Yes.				
	45	Auto report after i		Yes.				
*	46	Self-diagnosis and		Yes.				
	47	Soaking after running		Yes. The lowest soaking temperature is 0°C.				
	48	Memory function of power-down		Yes.				
	49	Total time / Remain time prediction		Yes.				
*	50	Peltier life warning Yes, automatically assess Peltier's health stat				tus and gi	ve maintenance suggestions.	
	51	Screen calibration	1	Yes.				
	52			Yes. Engineering mode only.				
*				On/off				
*	53	Key tone	Screen brightness adjustment Yes					
*			adjustment	Yes				
*	53	Screen brightness	adjustment		onfiguration, self-test, fac	tory settin	g, software upgrade, engineering inte	erface (Engineering mode only).
*	53 54 55	Screen brightness System	adjustment	Including system co			g, software upgrade, engineering inte	erface (Engineering mode only).
*	53 54	Screen brightness		Including system co	oftware features, quick gu		g, software upgrade, engineering inter r codes, contact information.	erface (Engineering mode only).

#### \* Refers to the special function of Eastwin.

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# ETC821D Thermal Cycler Plus (Double Blocks)



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http://ultrassay.com





#### Introdution

ETC821D is a Double-block model meticulously built on the basis of the classic ETC821 model. The instrument adopts a Double-block module design and can run two different PCR programs independently. It is especially suitable for small throughput such as teaching and scientific research PCR experiment.

#### **Features**

One machine with multiple uses

Double-block design You can run different programs independently

Two 48 wells\*0.2ml modules can be set up separately to run programs, independently and in parallel, flexible to meet the various needs of users for PCR experiments.

The experiment is more secure

#### **Long life Peltier**

- Using Marlow series Peltier, higher quality and longer life.
- The early warning function of the working status of the Peltier, which automatically evaluates the health status of Peltier, and provides mainenance recommendations, so that you will be confident in the smooth completion of the experiment and will know the reliable use of the instrument.

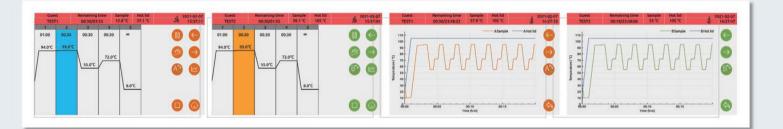




#### Intelligent operation experience

### Minimal software interface powerful system functions

- Windows style operation interface, easy to use for software operation.
- One-click data import and export, U disk upgrade, efficient and convenient conversion between stations.
- Personal file management system, separate protection of program data.
- A variety of interfaces can be switched at needs for browsing, observation, maintenance to research.



Inherited classic features

## Professional temperature controls, excellent performance

- Intelligent suppression of non-specific amplification
- Perfect constant rate temperautre change
- Intelligent supproession of reagent evaporation in small volumes

