



Decode Genetic Life. Assure Human Health.



**Magic Cube**



## AFD 4800 Real-Time PCR Fluorescence Detection System

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# AFD4800 Real-Time PCR Detection System



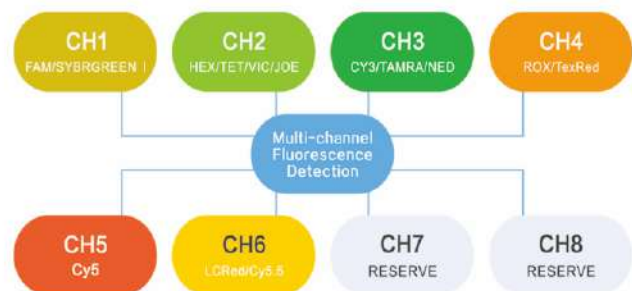
## MultiRun PCR

### ▶ Product Profile

This system consists of control system, power system, photoelectric system, modular component, hot lid component, shell component and so on.

The working principle: According to the operation parameters inputted in computer, the system can control temperature change in reagent sample module parts, meet the condition of sample amplification cycle process the degeneration at high temperature, annealing (renaturation) at low temperature, and extension at proper temperature. Detect fluorescence changes of samples with the photoelectric detection system. Data could be analyzed and processed by software.

This product is used for fluorescent quantitative PCR detection as following fields: Research field such as immunology, human genome biology, forensic medicine, oncology, organization and population biology, paleontology, zoology, botany, clinical diagnosis field such as virus, tumor, genetic diseases of fluorescent quantitative PCR detection in the field of clinical diagnosis.



It's a high cost performance that combine with 6 channels in detection, and it can be extended to 8 channels



## ► Parameters

No.	Name	Real-time PCR
1	Specification	AFD4800
2	Sample Volume	3×48×0.2ml centrifugal tube (10 - 100μl), adapt to 18×8 connected pipe
3	Sensitivity	As low as 1 copy
4	Fluorescence Channel	[F1~F2; F1~F4; F1~F6](Optional) F7~F8(Reserved)
5	Temperature Range	30.0 - 99.9℃
6	Temperature Uniformity	± 0.3℃ <sup>9</sup> (@55℃)
7	Precision of Temperature Control	± 0.1℃(@55℃)
8	Warming Rate(MAX)	≥4.5℃/s
9	Cooling Rate(MAX)	≥4.5℃/s
10	Hot Lid Temperature Range	30~105℃
11	Fluorescence Intensity Test Repeatability	CV≤3%
12	Sample Test Repeatability	CV≤3%
13	Sample Linear	Linear regression coefficient r≥0.980
14	Fluorescent Linear	Linear regression coefficient r≥0.990
15	Instrument Communication Interface	USB2.0
16	Operating System	Windows XP Sp3/Vista/7/8
17	Input Power	100~240V, 50/60Hz, 1500W
18	Dimension(mm)	586×526×780(L×W×H)
19	Net Weight(kg)	65(exclude computer)

Note: Text and images are only for reference



## Product Features

- High throughput and the maximum testing samples capacity can reach to 144; with changeable and flexible scheme(samples capacity are optional among 48, 96, 144).
- 3 independent systems for different requirement of samples, which can be uploaded, run, analyzed simultaneously independently.
- Samples are in or out automatically and hot lid is warmed automatically.
- Wireless remote control and analysis in real-time.
- Carry positive detection rate analysis by itself. Laboratory pollution will activate the early warning.
- Equip with database and LIS connection.
- Reserve full-automatic PCR link function.
- Equip with temperature gradient function.
- Adopt long life LED, which guarantee the stability and reliability of the optical system.
- Unique humanized module design, which can conduct experiment with 18×8 connected pipe simultaneously.
- User can set report form, multicolor printing; analysis and print function can be set up.
- Powerful automatic gain and automatic background correction; the first to achieve that self-adapting reagent detection when the background is too low or too high and signal is too low or too high in domestic.



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<http://en.daangene.com>

### China

**Da An Gene Co., Ltd. Of Sun Yat-sen University**

Add.: No. 19th, Xiangshan Road, Science Park, High & New Technology Development District, Guangzhou, Guangdong, P. R. China, 510665

Tel.: +86 20 32290789

Fax: +86 20 32068352

Marketing E-mail: [marketing@daangene.com](mailto:marketing@daangene.com)

Sales E-mail: [orders@daangene.com](mailto:orders@daangene.com)

### Canada

**Da An Diagnostic Ltd.**

Add.: #200-5050 Kingsway, Burnby, B.C., Canada, V5H 4H2

Tel.: 604.451.7588

Fax: 604.451.7587

E-mail: [daandiagnostics.garry@hotmail.com](mailto:daandiagnostics.garry@hotmail.com)

### U.S.A

**Da An Vision Inc.**

Add.: 6725 Mesa Ridge Road, San Diego, CA. 92121

Tel.: +001 8584125583

E-mail: [daandiagnostics.garry@hotmail.com](mailto:daandiagnostics.garry@hotmail.com)



### South Africa

**PRM Medical (Pty) Ltd**

76 Skilpad Avenue, Monument Park, Pretoria, 0181

**087 265 7919**

[info@prmmedical.co.za](mailto:info@prmmedical.co.za)