

## 主板BIOS风扇转速控制

水冷散热器主要靠水泵驱动水冷液流动带走CPU热量，要确保水冷散热性能的发挥，首要保证水泵2000RPM以上的转速，通常我们设置水泵全速运行。

### 水冷散热器的接线

一般情况下，我们建议把冷排风扇接在主板的CPUFAN接口，水泵则接在PUMP或者CHAFAN/SYSFAN接口。当然，这不是绝对的，如果有需要，也可以接别的风扇接口，自己心里有数就行。

### 风扇和水泵的转速设置 (在冷排风扇接CPUFAN，水泵接CHAFAN接口的情况下)

接好了线，然后我们就需要进入主板BIOS。一般电脑开机的时候按delete键，系统会进入BIOS页面，在“监控”或者“H/W MONITOR”菜单下，我们可以设置各个接口的转速。

通常我们把接风扇的CPUFAN接口设置为标准模式（standard）或者静音模式（silent），把接水泵的PUMP或者CHAFAN接口/SYSFAN接口设置为全速（full speed）。

下面是主流主板品牌的BIOS风扇转速设置页面：

## 华硕ROG主板BIOS风扇转速调节页面

The screenshot shows the BIOS Utility interface with the following details:

- Header:** UEFI BIOS Utility – Advanced Mode. Date: 12/03/2017 Sunday, Time: 11:40. Language: English. MyFavorite(F3), Qfan Control(F6), EZ Tuning Wizard(F11), Hot Keys.
- Navigation:** My Favorites, Main, Extreme Tweaker, Advanced, **Monitor**, Boot, Tool, Exit.
- Chassis Fan 1 Q-Fan Control:**
  - Chassis Fan 1 Q-Fan Control: **Auto** (dropdown menu)
  - Chassis Fan 1 Q-Fan Source: CPU (dropdown menu)
  - Chassis Fan 1 Step Up: 0 sec (dropdown menu)
  - Chassis Fan 1 Step Down: 0 sec (dropdown menu)
  - Chassis Fan 1 Speed Low Limit: 200 RPM (dropdown menu)
  - Chassis Fan 1 Profile: Manual (dropdown menu)
  - Chassis Fan 1 Upper Temperature: 70 (input field)
  - Chassis Fan 1 Max. Duty Cycle (%): 100 (input field)
  - Chassis Fan 1 Middle Temperature: 45 (input field)
  - Chassis Fan 1 Middle. Duty Cycle (%): 60 (input field)
  - Chassis Fan 1 Lower Temperature: 40 (input field)
  - Chassis Fan 1 Min. Duty Cycle (%): 60 (input field)
- Hardware Monitor (Right Panel):**
  - CPU:** Frequency 3200 MHz, Temperature 25°C, BCLK 100.0000 MHz, Core Voltage 1.072 V, Ratio 32x.
  - Memory:** Frequency 2133 MHz, Voltage 1.200 V, Capacity 16384 MB.
  - Voltage:** +12V 12.288 V, +5V 5.040 V, +3.3V 3.360 V.
- Info:** [DC mode]: Enable the chassis Q-Fan control in DC mode for 3-pin chassis fan. [PWM mode]: Enable the chassis Q-Fan control in PWM mode for 4-pin chassis fan. [Disabled]: Disable the chassis Q-Fan control.

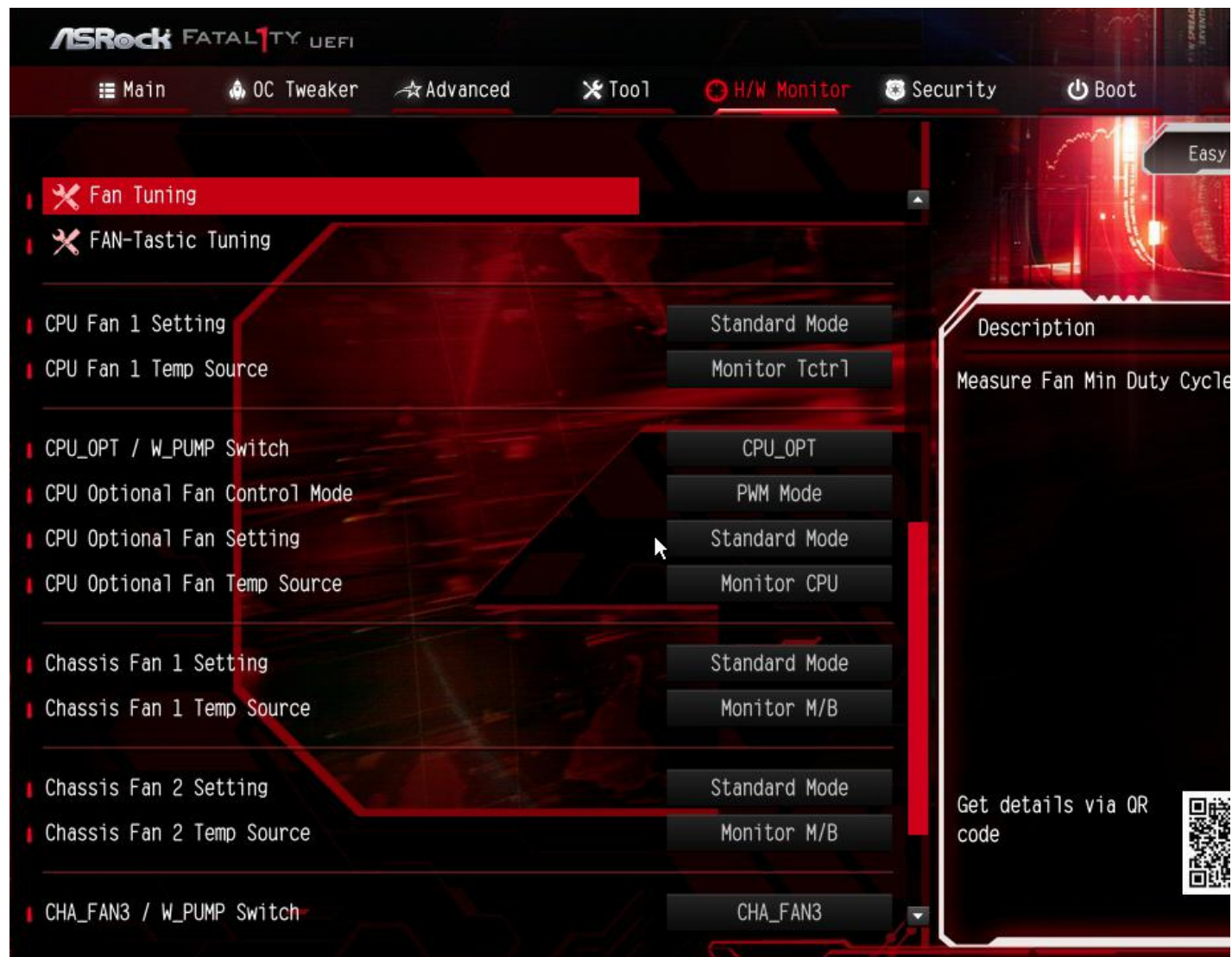
图中CHAFAN1接口转速模式是auto自动模式，我们需要改为全速模式full speed。

## 微星主板BIOS风扇转速调节页面



图中的PUMP接口，我们需要改为全速模式full speed。

## 华擎主板BIOS风扇转速调节页面



图中CHAFAN1接口转速模式是standard标准模式，我们需要改为全速模式full speed。

## 技嘉主板BIOS风扇转速调节页面

The image shows two screenshots of the GIGABYTE UEFI DualBIOS interface. The left screenshot shows the 'PC Health Status' menu item highlighted in red. The right screenshot shows the 'Fan Speed Control' settings, with the 'CPU OPT Fan Speed Control' setting highlighted in red. The 'CPU OPT Fan Speed Control' is currently set to '[Normal]'.

Setting	Value
CPU Temperature Warning	[Disabled]
System Temperature Warning	[Disabled]
2nd System Temperature Warning	[Disabled]
PCH Temperature Warning	[Disabled]
CPU Fan Fail Warning	[Disabled]
CPU OPT Fan Fail Warning	[Disabled]
1st System Fan Fail Warning	[Disabled]
2nd System Fan Fail Warning	[Disabled]
3rd System Fan Fail Warning	[Disabled]
4th System Fan Fail Warning	[Disabled]
CPU Fan Speed Control	[Normal]
Fan Speed Percentage	[0.75 PWM value / °C]
CPU OPT Fan Speed Control	[Normal]
Fan Speed Percentage	[0.75 PWM value / °C]
1st System Fan Speed Control	[Normal]
Fan Speed Percentage	[0.75 PWM value / °C]
2nd System Fan Speed Control	[Normal]
Fan Speed Percentage	[0.75 PWM value / °C]

BIOS Version: F5c  
BCLK: 99.95MHz  
CPU Frequency: 3901.15MHz  
Memory Frequency: 2132.28MHz  
Total Memory Size: 16384MB  
CPU Temperature: 27.0°C  
Vcore: 1.224V

++: Select Screen ↑↓: Select Item  
Enter: Select  
+/-/PU/PD: Change Opt.  
F1 : General Help  
F5 : Previous Values  
F7 : Optimized Defaults  
F8 : Q-Flash  
F9 : System Information  
F10 : Save & Exit

Set the CPU warning temperature. The system will give a warning if the desired CPU temperature is breached.  
Note: Front panel speaker must be connected. Requires a system reboot to implement.

++: Select Screen ↑↓: Select Item  
Enter: Select  
+/-/PU/PD: Change Opt.  
F1 : General Help  
F5 : Previous Values  
F7 : Optimized Defaults  
F8 : Q-Flash  
F9 : System Information  
F10 : Save & Exit

图中CPU OPT接口转速模式是Normal普通模式，我们需要改为全速模式full speed。