

Wiring Diagram 接線圖

Ⓐ Red- Battery Input Voltage DC24V~DC60V	Ⓐ 紅-電池輸入電壓 DC24~DC60V
Ⓑ Black- Battery Input Voltage 0V	Ⓑ 黑-電池輸入電壓 0V
Ⓒ BLDC Hall Sensor 2.54-5P (female):	Ⓒ BLDC 霍爾感應 2.54-5P (母頭):
PIN1 (Red)--> +5V	PIN1 (紅) --> +5V
PIN2 (Purple)--> 0V	PIN2 (紫) --> 0V
PIN3 (Yellow)--> HA	PIN3 (黃) --> HA
PIN4 (White)--> HB	PIN4 (白) --> HB
PIN5 (Black)--> HC	PIN5 (黑) --> HC
Ⓓ 2.54-4PIN (female):	Ⓓ 2.54-4PIN (母頭): 接控制面板
Connecting With Control Panel	
Ⓔ 2.54-4PIN (male):	Ⓔ 2.54-4PIN (公頭): 接 BB Speed Sensor
Connecting With BB Speed Sensor	
Ⓕ 2.54-2PIN (female)(2 sets):	Ⓕ 2.54-2PIN (母頭) (2組): 接手把煞車訊號
Connecting With Handlebar Brake Signal	
Ⓖ 2.54-3PIN (female):	Ⓖ 2.54-3PIN (母頭): 接手把速度調整
Connecting With Handlebar Speed Adjusting	
PIN1 (Red)--> 5V	PIN1 (紅) --> 5V
PIN2 (Brown)--> Vin	PIN2 (棕) --> Vin
PIN3 (Black)--> 0V	PIN3 (黑) --> 0V
Ⓚ Blue-BLDC U Phase	Ⓚ 藍-BLDC U 相
Ⓛ Yellow-BLDC V Phase	Ⓛ 黃-BLDC V 相
Ⓜ Green-BLDC W Phase	Ⓜ 綠-BLDC W 相

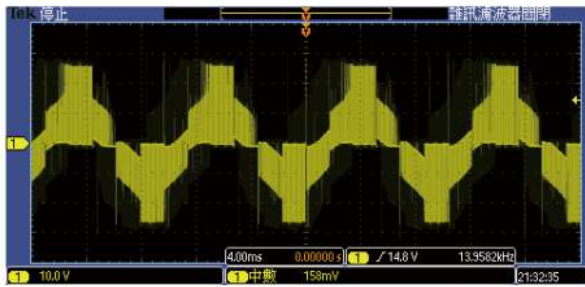
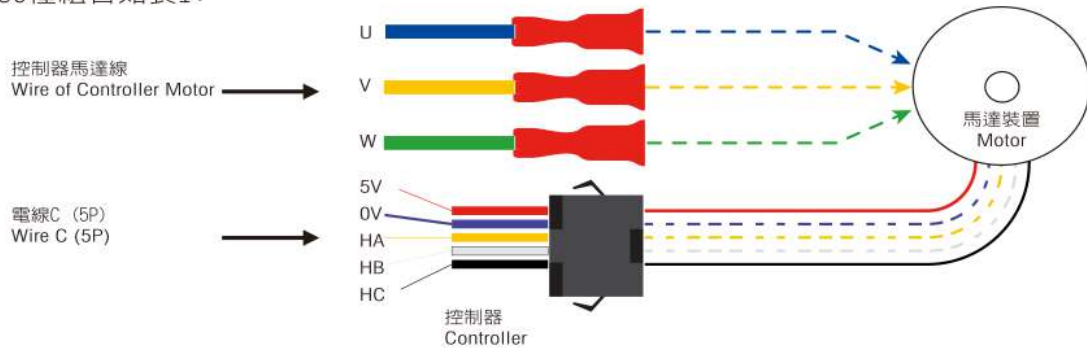
BLDC (Brushless DC Motor) Wiring Diagram (無刷直流馬達) 接線方式

- Wiring Controller **U**, **V** and **W** with BLDC Motor **U**, **V** and **W**
- Wiring Controller **HA**, **HB** and **HC** with BLDC Motor **HA**, **HB** and **HC**
- 控制器 **U**, **V**, **W** (端) 接BLDC馬達 **U**, **V**, **W**(端)
- 控制器 **HA**, **HB**, **HC** (端) 接BLDC 馬達 **HA**, **HB**, **HC** (端)

Integration 整合方式

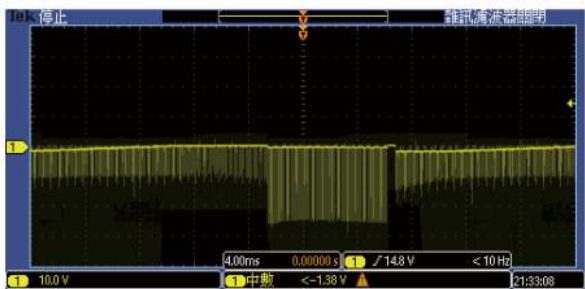
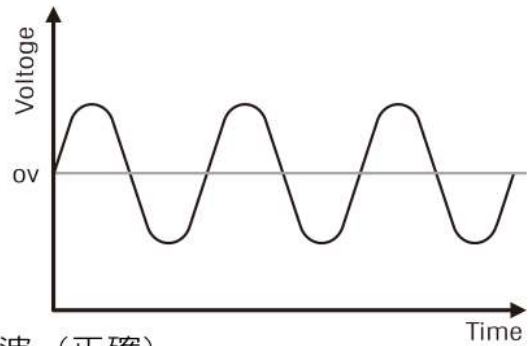
To measure **U** and **V** voltage waveform by an Oscilloscope and the correct waveform of wiring diagram will be shown as Drawing 1. It is necessary to shift motor wiring if the waveform shows as Drawing 2 or Drawing 3. The combination of 36 wiring diagram is shown as Table 1.

使用示波器測量**U**與**V**電壓波形，須有圖1 波形為正確接線若產生圖2，圖3波形時請交換馬達接線，共有36種組合如表1。



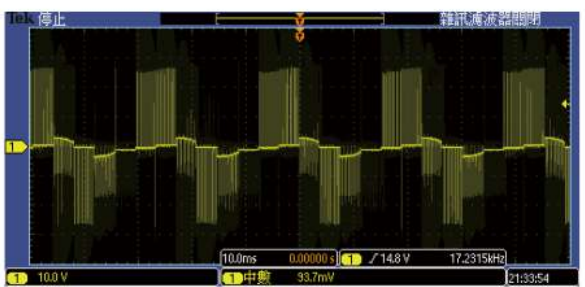
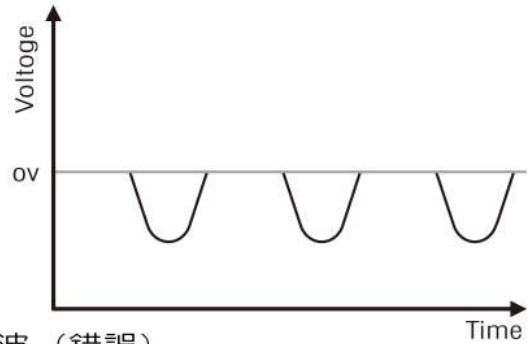
Drawing 圖1

1 Correct Waveform 正弦波 (正確)



Drawing 圖2

2 Incorrect Waveform 半波 (錯誤)



Drawing 圖3

3 Incorrect Waveform 方型波 (錯誤)

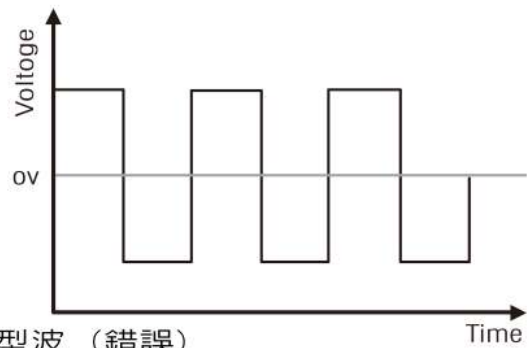


Table 1 (表一)

NO.	BLDC FIXED	BLDC	BLDC FIXED	BLDC	Correct Waveform
項目	控制器	BLDC 固定不變	控制器	BLDC 固定不變	是否正確波形
01	U V W	U V W	HA HB HC	HA HB HC	
02	U V W	U V W	HA HC HB	HA HB HC	
03	U V W	U V W	HB HA HC	HA HB HC	
04	U V W	U V W	HB HC HA	HA HB HC	
05	U V W	U V W	HC HA HB	HA HB HC	
06	U V W	U V W	HC HB HA	HA HB HC	
07	U W V	U V W	HA HB HC	HA HB HC	
08	U W V	U V W	HA HC HB	HA HB HC	
09	U W V	U V W	HB HA HC	HA HB HC	
10	U W V	U V W	HB HC HA	HA HB HC	
11	U W V	U V W	HC HA HB	HA HB HC	
12	U W V	U V W	HC HB HA	HA HB HC	
13	V U W	U V W	HA HB HC	HA HB HC	
14	V U W	U V W	HA HC HB	HA HB HC	
15	V U W	U V W	HB HA HC	HA HB HC	
16	V U W	U V W	HB HC HA	HA HB HC	
17	V U W	U V W	HC HA HB	HA HB HC	
18	V U W	U V W	HC HB HA	HA HB HC	
19	V W U	U V W	HA HB HC	HA HB HC	
20	V W U	U V W	HA HC HB	HA HB HC	
21	V W U	U V W	HB HA HC	HA HB HC	
22	V W U	U V W	HB HC HA	HA HB HC	
23	V W U	U V W	HC HA HB	HA HB HC	
24	V W U	U V W	HC HB HA	HA HB HC	
25	W U V	U V W	HA HB HC	HA HB HC	
26	W U V	U V W	HA HC HB	HA HB HC	
27	W U V	U V W	HB HA HC	HA HB HC	
28	W U V	U V W	HB HC HA	HA HB HC	
29	W U V	U V W	HC HA HB	HA HB HC	
30	W U V	U V W	HC HB HA	HA HB HC	
31	W V U	U V W	HA HB HC	HA HB HC	
32	W V U	U V W	HA HC HB	HA HB HC	
33	W V U	U V W	HB HA HC	HA HB HC	
34	W V U	U V W	HB HC HA	HA HB HC	
35	W V U	U V W	HC HA HB	HA HB HC	
36	W V U	U V W	HC HB HA	HA HB HC	