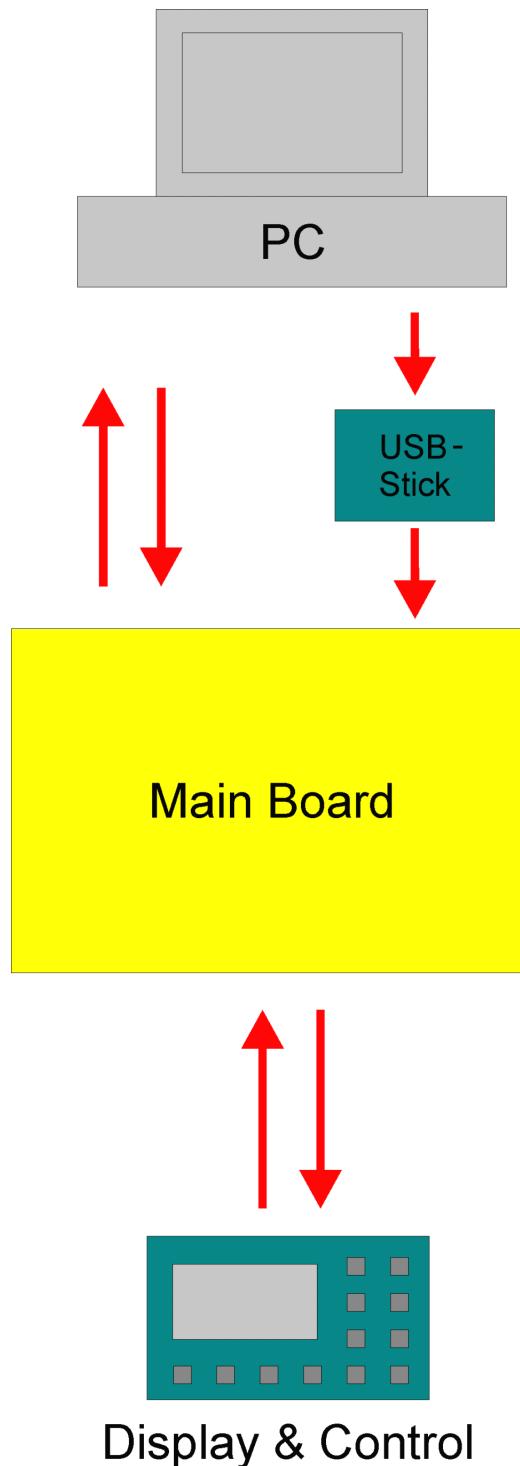


Laser controlling system

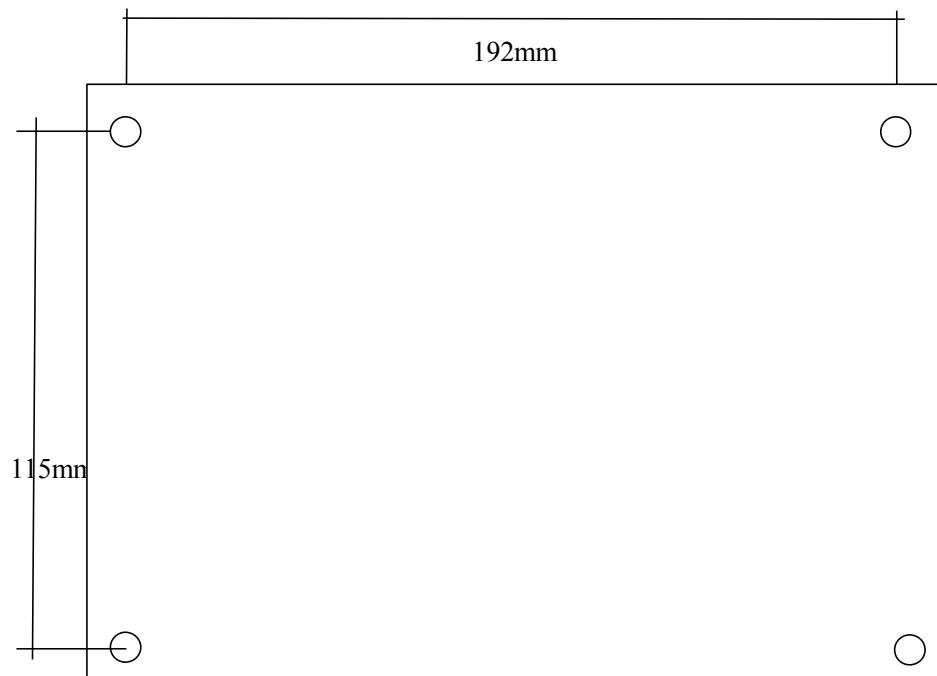
1. Controlling system

How the controlling system works:

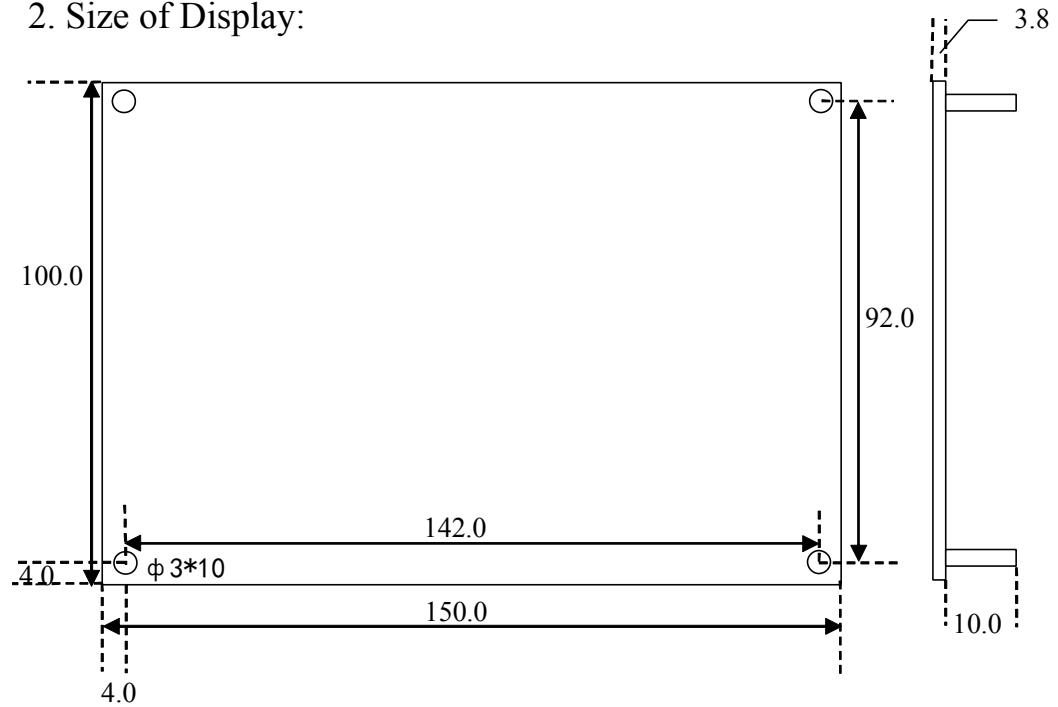


2. Installation Size

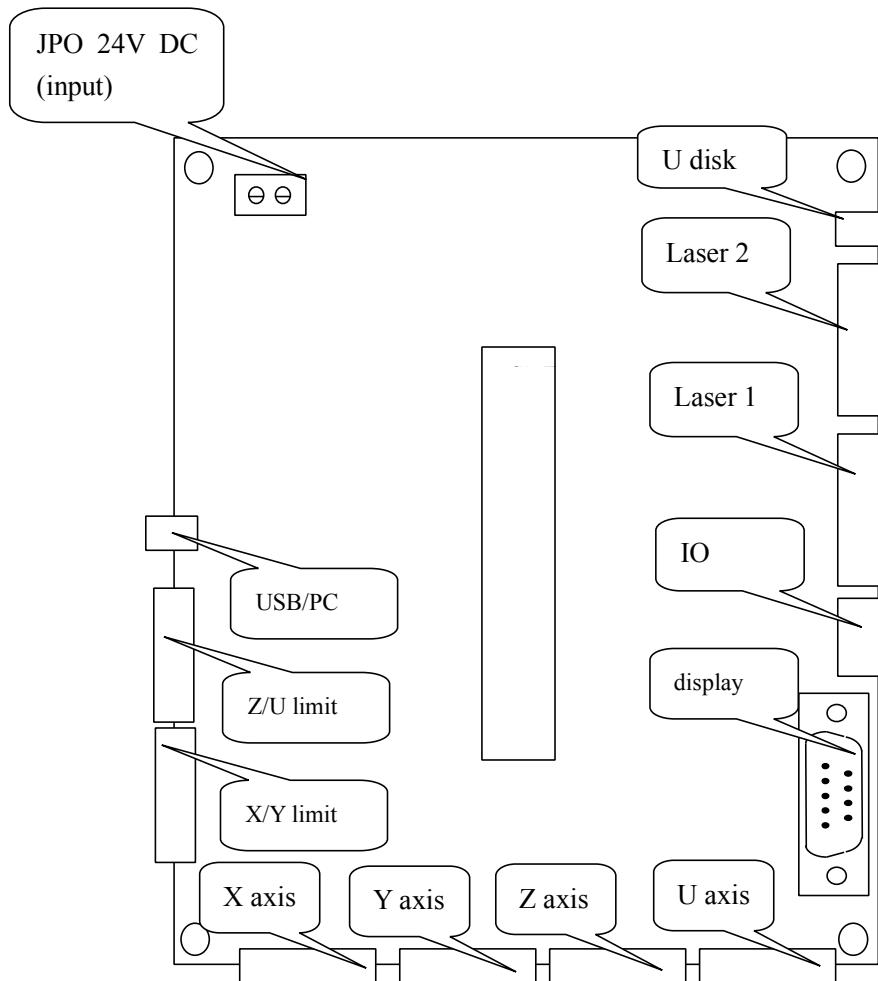
1. Size of Main Board:



2. Size of Display:



3. Interface of Main Board



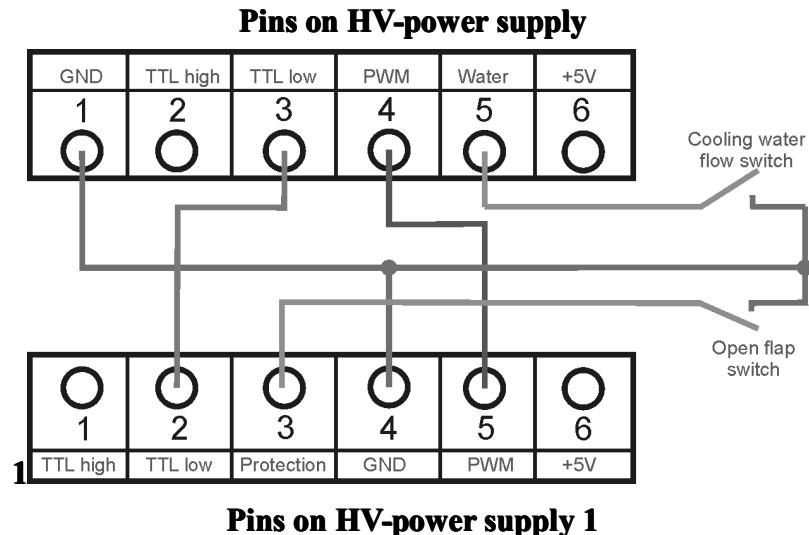
Pin	definition					
	1	2	3	4	5	6
JPO	GND	24V VCC				
Laser 1	GND	TTL-High	TTL-Low	Laser intensity	Water protection	5V+
Laser 2	GND	TTL-High	TTL-Low	Laser intensity	Footswitch	5V+
X-axis	GND	DIR+	DIR-	PWM-	PWM+	5V+
Y-axis	GND	DIR+	DIR-	PWM-	PWM+	5V+
Z-axis	GND	DIR+	DIR-	PWM-	PWM+	5V+
U-axis	GND	DIR+	DIR-	PWM-	PWM+	5V+
X/Y limit	GND	Y-, limit of 0 coordinate	Y+, limit of the end coordinate	X-, limit of 0 coordinate	X+, limit of the end coordinate	5V+
U/Z limit	GND	U-, limit of 0 coordinate	U+, limit of the maximum coordinate		Z+, limit of the maximum coordinate	5V+
IO	GND	open flap(input)	blow air(input) Fan control	5V+(output)		

4. How to connect HV-power supply

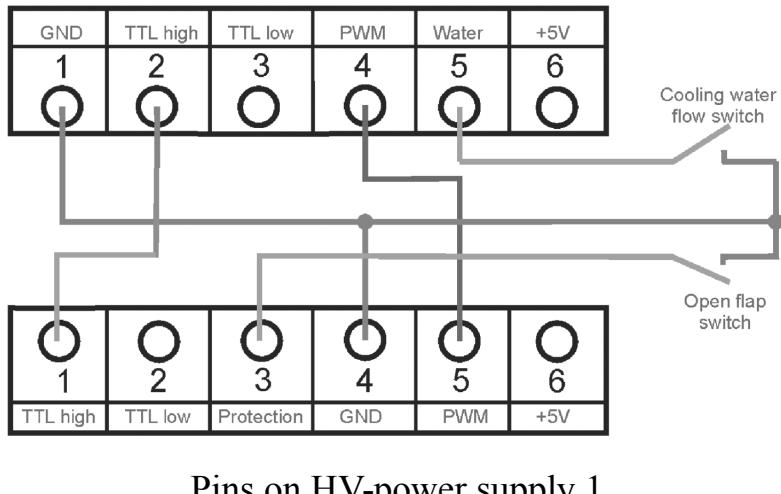
Connect Laser 1 to power supply control connector

There are two ways to connect them.

1)to TTL low



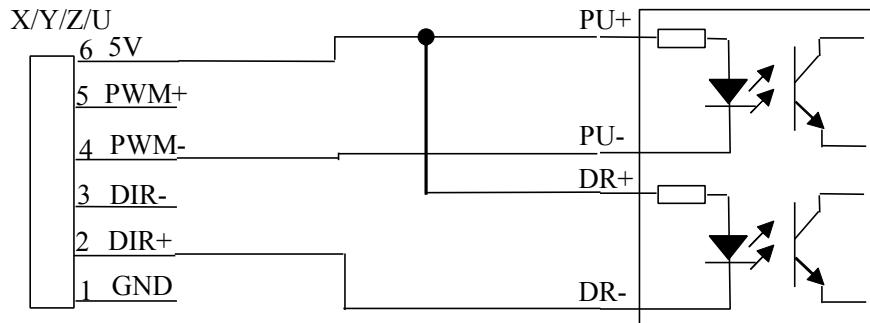
2)to TTL high



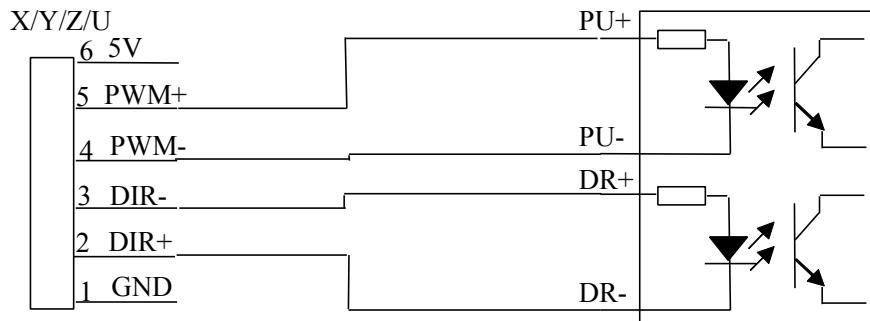
5. How to connect motor driver

1. Impulse signal rising edge

We usually use this kind of connection

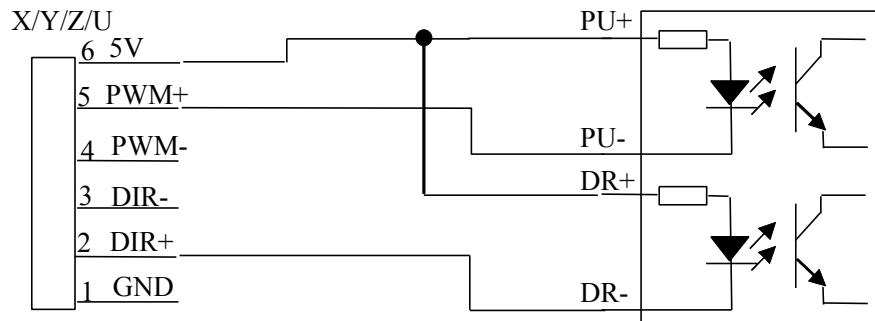


Common Anode connection

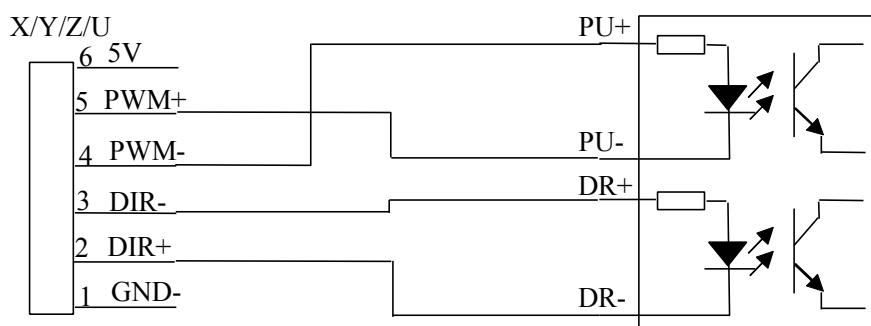


Difference Voltage connection

2. Impulse signal Falling Edge



Common Anode connection



Difference Voltage connection

6. How to connect X/Y limit

Mainboard X/Y limit

