

20k scanner set /User manual

Potentiometer description:

- IS Input scale (adjusted only in factory)
- SG Servo gain (power of the feedback signal for internal PID controller)
- LFD Low frequency damping (correct overshoot)
- HFD High frequency damping (correct undershoot)
- LIN Zero offset (electrical offset of the driver, adjusted only in factory)
- PS Position scale (increases or decrease input sensitivity of the computer, DO NOT change it)

These pots aren't marked

To be able to tune you need to know which pot on the board is which

As I could randomly adjust the wrong pot without this knowledge

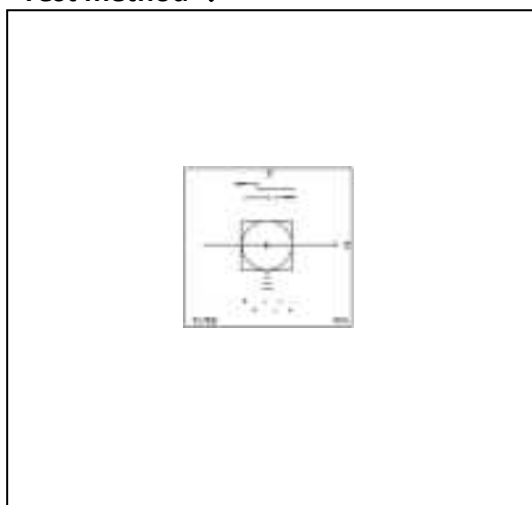
le(electrical offset of the driver, adjusted only in factory)

Features:

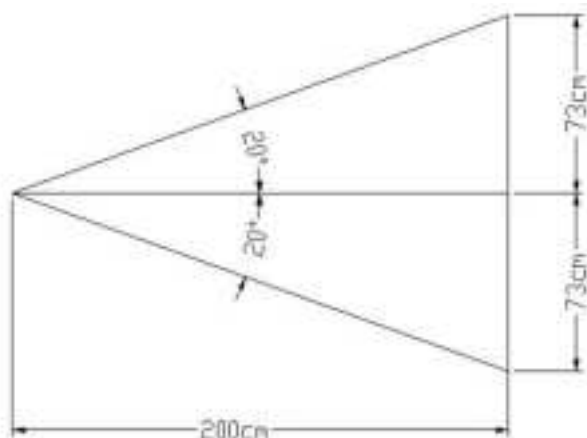
- ◆ Voltage : +15V/1.0A, -15V/0.5A (optional±12V)
- ◆ 200K±1%Ω 、 100K±1%Ω
- ◆ ±5 V,±10 V, (optional)
- ◆ Working temperature: 0~50℃
- ◆ Scan angle: ±20°
- ◆ Mirror reflex: >99% @45° (length: 400nm-680nm)
- ◆ Drive board size: 77.2mm×58mm×27.5mm

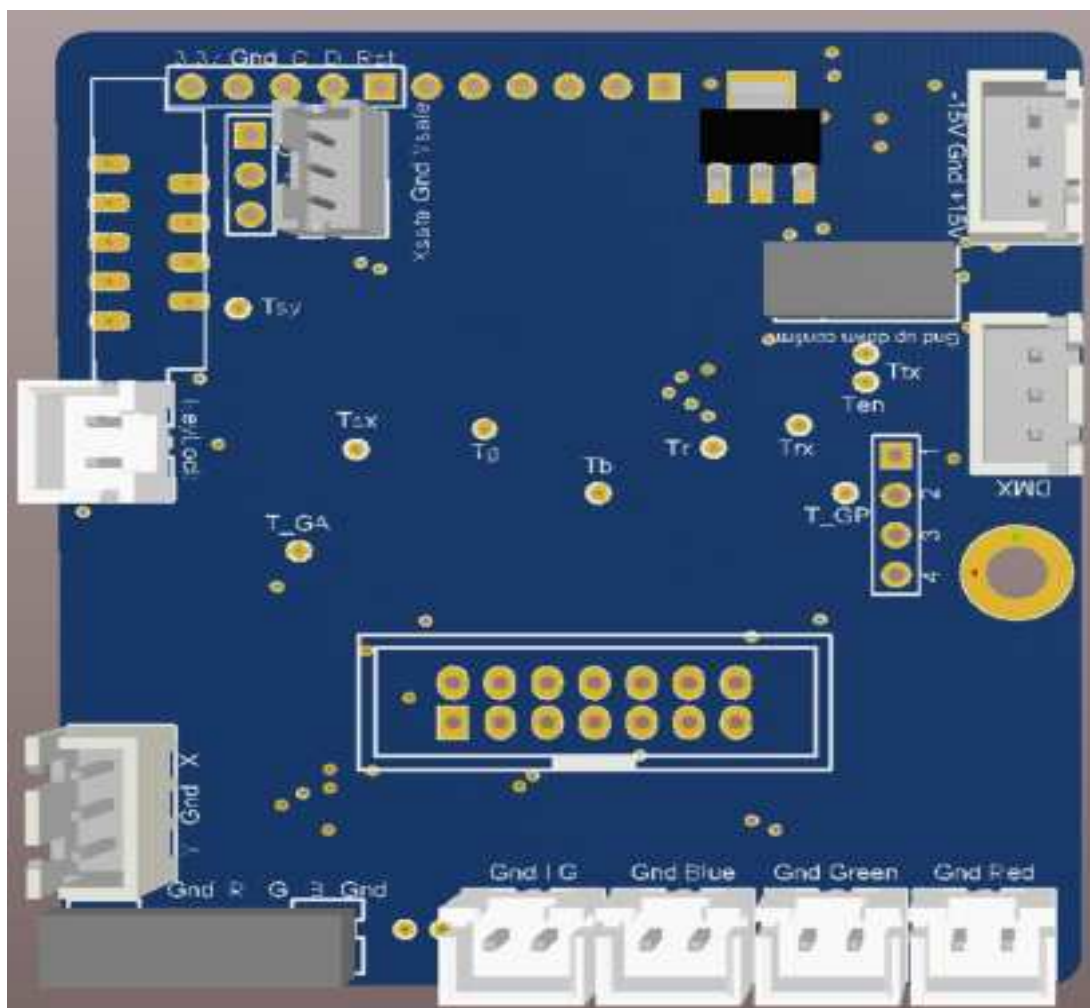
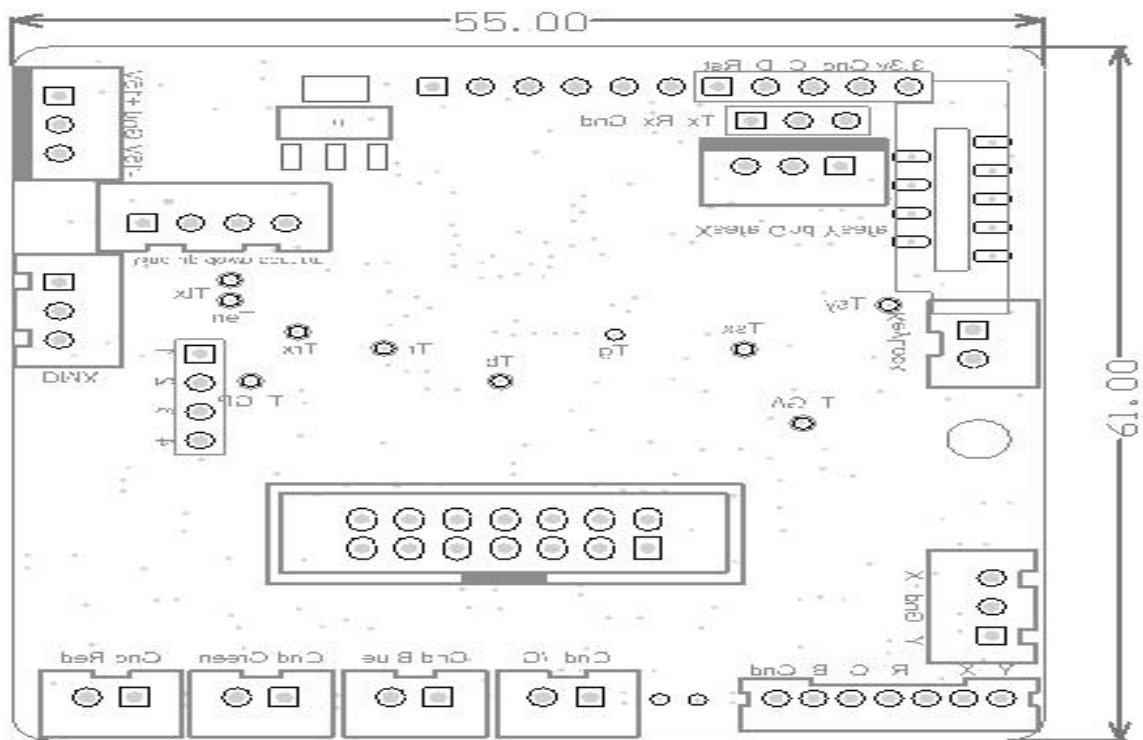
	Power source	speed @mirror size	Test standard
AT25	±15V or ±12V	25Kpps @ X/Y:7*11*0.8mm	volage: ±15V
AT25L	±15V	20Kpps @ X/Y:8*13*0.8mm	Scan angle: ±20° Test : ILDA/30K

Test method :



框)





DMX channe	value	function	instruction
1	0-39	Laser OFF	
	40-79	Sound mode	
	80-119	Auto mode	
	120-159	cartoon (ROM)	
	160-199	cartoon (sd)	
	200-255	pattern (ROM)	
2	0	Laer OFF	
	1	Fixed Color	File 1
	2-15	7 color (file1)	Every two numbers correspond to a color
	16-19	7color random	
	20-33	7 color (file 2)	Every two numbers correspond to a color
	34-37	7colorchange	
	38-154	Palette	
	155-255	Palette random	
3	0-255	Pattern	Step 2
4	0-127	Manual vertical moving	
	128-191	forward direction vertical moving	
	192-255	reversion vertical moving	
5	0-127	Manual Horizontal moving	
	128-191	forward direction Horizontal moving	
	192-255	reversion Horizontal moving	
6	0-127	Manual vertical rolling-over	
	128-255	Auto vertical rolling-over	
7	0-127	Manual horizontal rolling-over	
	128-255	Auto horizontal rolling-over	
8	0-127	manual operation Rotate	
	128-191	Forward auto rotate	

	192-255	Reversion rotate	auto
9	0-85	Forward	auto zoom
	86-170	Reversion zoom	auto
	171-255	Alternates zoom	auto
10	0-255	Size	
11	0-63	Show	
	64-127	brightened dot show (highlights to the cross lines)	Value small, brightened dot more
	128-191	Segmentation show	Value small, segmentation more
	192-255	point Show	
12	0-127	drawing1	
	128-255	drawing2	

2-15	7 color	
	2-3	Red
	4-5	Green
	6-7	Blue
	8-9	Yellow
	10-11	cyan
	12-13	purple
	14-15	White
20-33	7 color (Red Green Blue Yellow cyan purple White)	
		Step primary colors ----- The changed color
	20--21	1 Red Green Blue Yellow cyan purple White ----- Green Blue Yellow cyan purple White Red
	22--23	2 Red Green Blue Yellow cyan purple White ----- Blue Yellow cyan purple White Red Green
	24--25	3 Red Green Blue Yellow cyan purple White ----- Yellow cyan purple White Red Green Blue
	26--27	4 Red Green Blue Yellow cyan purple White ----- cyan purple White Red Green Blue Yellow
	28--29	5 Red Green Blue Yellow cyan purple White ----- purple White Red Green Blue Yellow cyan
	30--31	6 Red Green Blue Yellow cyan purple White ----- White Red Green Blue Yellow cyan purple
	32--33	7 Red Green Blue Yellow cyan purple White ----- Red Green Blue Yellow cyan purple White

If the LED does not light up, pressing any key will return to the current menu

Function: With the LED on, pressing function will return to the main menu (cycle down)

Confirm: Press to enter the edit mode, except that after pressing "Current Software Version Number" will enter the submenu

Up/Down: You can select the menu up and down by "Up", "Down" (not looping)

1. menu operation :

Function	Confirm is pressed and enters the edit mode		Confirm	remarks
	Up/+	Down/-		
	Axxx: The first letter is A, three numbers after, default: 10, range: 1-49 indicates auto speed		After confirmation, the current value of the setting will be stored, including functions and parameters, and the next time the machine is saved and shut down. In the current state, the first dot will light up, and in the non-current state, the first dot will not light up. If Up or Down is pressed, the parameters will change and the second dot will flash, and after pressing the confirm button, the second dot will always light up. Press the confirm button again to exit editing, and Up, Down becomes a menu selection	Auto mode effect, the first small light indicates that the current state is self-propelled
	Sxxx: The first letter is S, the next three numbers, default: 5, range: 1-50 indicates the delay time of silent closed light. Range: 1-25 indicates sound-activated speed. Depends on the version actually selected			Voice mode effect, when there is a voice signal, the third dot will flash
	NO			Slave, when there is a master signal, the fourth dot will flash. The host can only be the above two: "auto mode" and "voice-mode"
	dxxx: The first letter is D, the next three numbers, default: 1, range: 1-512, indicating the address code			Set the DMX address code, when there is a DMX512 signal, the fourth dot will flash
	The first letter is L The next three numbers. -1 means loop, 0 means static beam graphic, and the number 1 and the following correspond to the list of beams and animations in the material			The list can be edited by the host computer software, and its ordering will also affect the selection of some channels in DMX. You can open the following file in the ILDA_user software to view it updata/ex_play.list

Set submenu		Vxxx The first letter is V The next three number means the version number	After pressing the confirmation key, you will enter the "Settings" submenu	This is only used for flags and to facilitate identification and distinction. The parameters are fixed and not adjustable
		no function, and this indicates means you have entered the submenu		
		lxxx, The first letter is l The next three numbers. default: 1, range: 0-1, 1 means that the automatic, and 0 means that the automatic switching is turned off		It is convenient to turn on ILDA continuously to realize the switching between the control board and ILDA
		Types of lasers rGb0:RGB analog lasers ttL1:TTL lasers		
		Figure size, Max100, Min2		The minimum is not 0 to prevent a single point from causing security problems
		n.xxx: The first letter is N The next three numbers. default: 1, range: 1-8, XY 1: XY direction, 2: X direction, Y opposite direction, 3: XY opposite direction, 4: X opposite direction, Y direction XY change 5: XY direction, 6: X direction, Y opposite direction, rotate 7: XY opposite direction, 8: X opposite direction, Y direction		System orientation settings affect both the orientation of the built-in graphics and the ILDA-DB25 signal
		xCxx: The first number indicates the serial number C means channel he next two numbers indicate the number of channels occupied The standard version of the program board, the default is 18 channels, can be switched to 27 channels.		A variety of programs can edit and select the DMX channel type, and the DMX channel cannot be edited. Related to the actual delivery procedure. Different types have corresponding channel instructions

			(generally provided with accessories), please contact the supplier
	Scanner speed: 10: 10Kpps rate: 40HZ 15: 15.2Kpps rate: 45HZ 20: 20.4Kpps rate: 45HZ 26: 26.1Kpps rate: 45HZ 29: 29.3Kpps rate: 50HZ 31: 31.3Kpps rate: 50HZ 33: 33.5Kpps rate: 50HZ 36: 36.1Kpps rate: 50HZ 39: 39.1Kpps rate: 55HZ 42: 42.7Kpps rate: 55HZ		
	“nxxx” The next three number means the version number: 000: laser continuation。 001—005: The big number means the longer it takes from disconnection to closed light		The laser is turned off When the DMX signal do not link
rdnn	RDM,0:unable, 1: able After changing the settings, power on		When enabled, some DMX consoles may not function properly
	Sxxx, The first letter is S The next three numbers. default: 5, range: 0-50, dmx in due orde 。 follow , dmx affected by this。 0: dmx response, big number, dmx agreeable。		Dmx : Signal progressive value, different graphs have adapted values to correspond. Refer to the actual effect, generally use the default value
	0: RDM OFF, 1: RDM ON		
	Sxxx, The first letter is S The next three numbers. default: 0, range: 0-100, 0: unsafe, (1-100) big number, The greater the protection range (min sensitivity)。		Protect level
	Fxxx, The first letter is F The next three numbers. default: 22, range: 0-100, The number represents the threshold of voice-activated action, and when the sound exceeds this threshold, a voice-activated signal		The upper red line indicates the sound action threshold, and the lower middle yellow table response range

		is emitted		
			Press Reset to restart	Reset and initialize all parameters before rebooting
		txxx, The first letter is T The next three numbers, Represents the test pattern number 0: Circle 1: TOP 2: color 3: rectangle 4: red pattern 5: green pattern 6: Blue pattern 7: White pattern	Press the key "confirm" more 3 second This menu appears, you can use the burner to program the material	For test, the menu loop does not appear

If you still have any questions, please feel free to contact us at **whatsapp: 008613714995924**, we would like to serve your needs .