

High speed Galvo System

RGB-SCAN25 close-loop scanner

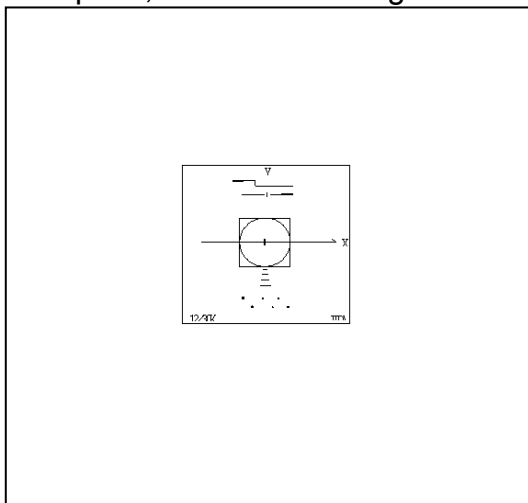
(PLEASE READ THIS MANUAL CAREFULLY BEFORE INSTALLATION)

Technical Data:

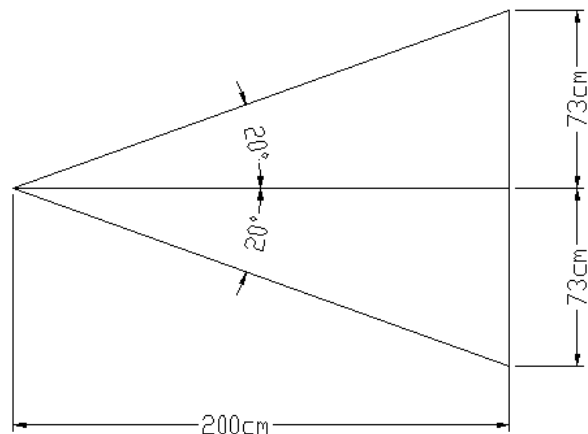
- ◆ System: Closed Loop Moving Magnet Scanner
- ◆ Input resistance: 200K ohms, differential
- ◆ Signal Input voltage: $\pm 5V$
- ◆ Input voltage requirements: +15V/1.0A, -15V/0.5A
- ◆ Operating temperature range: 0~50 degrees C
- ◆ Optical angle: $\pm 30^\circ$ max
- ◆ Scanner speed: >25Kpps (ILDA test pattern, $\pm 20^\circ$ optical)
- ◆ Mirror dimensions WxL: 7mm*11mm*0.6mm (wide wave-length)
- ◆ Board size: 7.72cm(long)*5.8cm(wide)*2.75cm(high)

The measuring procedure

The RGB-SCAN25 was measured with PANGOLIN QM2000 card. Running at the desired output speed. Using the standard ILDA test pattern. Laboratory power supply at +/-15VDC, room temperature. Windows PC with Pangolin, 12/30k ILDA test frame, full size. 7x11x0.6mm mirror was used during measuring period. The galvos is fixed in the standard mounts on an aluminum baseplate, no forced cooling.



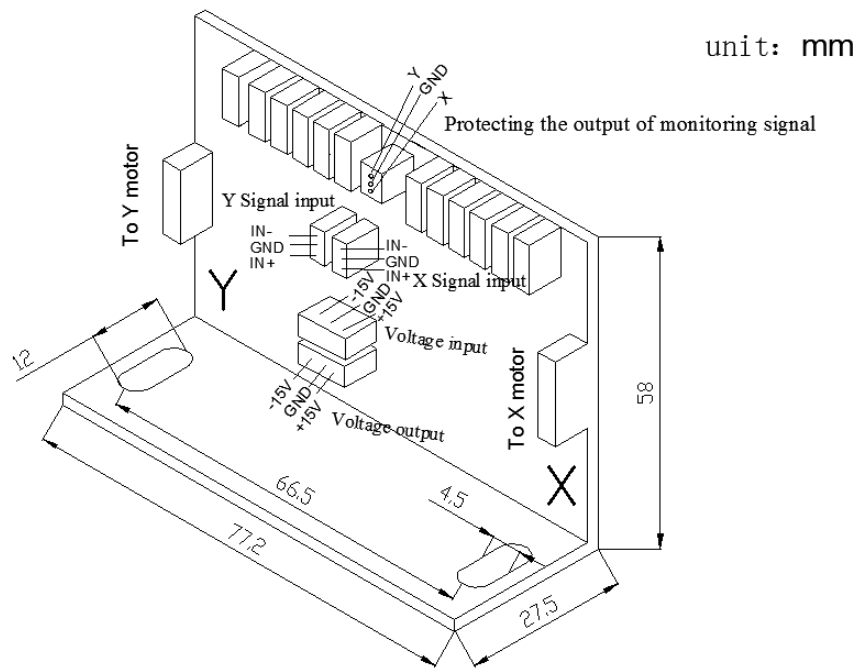
test pattern: ILDA/30K



angle: $\pm 20^\circ$

Deflection angle	Operating voltage	Speed@ Mirrors size
20 optical deflection	+/-15V	25Kpps @ 7*11*0.6

Topview



input connector

Power input			
2510-3 A Connector pins	Description	Remark	Cable color
3	+VCC	+15V/1.0A	RED, 24AWG
2	GND		BLACK, 24AWG
1	-VEE	-15V/0.5A	WHITE, 24AWG
Signal Input			
3	Control signal +	-5V~+5V analog signal	
2	S-GND	Ground	
1	Control signal -	-5V~+5V analog signal	

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 (increase or decrease input sensitivity of the computer,**DO NOT change it**)