

SS2800 Scanning System

Summary

SS2800 is a closed loop scanning system without torsion bar. It is upgraded from our previous BL30 which was originally developed in 1997. BL30 was once the fastest and only ILDA 30K scanner made in China before 2007. Thousands of BL30 scanner systems have been sold in past ten years.



We have been constantly upgrading our scanner systems based on the suggestions from our extensive customers since 1997. The new SS2800 scanning system powered by our new Amp, Scan-V4.3A can scan at over 51Kpps@ $\pm 8^\circ$ optical with mirror size of 6mm*11mm*0.7mm. Higher scan speed can be achieved by using smaller mirrors and higher voltage.

Technical Information

- **Max Scan angle:** $\pm 30^\circ$ optical (factory calibration @ $\pm 20^\circ$)
- **Mirror Size:** 6mm*11mm*0.7mm, (5mm*10mm*0.7mm for higher speed)
- **Mirror coating:** High quality dielectric film,
- **Reflectivity:** >98% @ 45° incidence (400nm-700nm)
- **Dimension of Galvo:** 12.7mm (diameter for fixture) x 42mm (length without mirror)
- **Power requirements:** ± 24 VDC @1.2A each
- **Input Voltage:** ± 5 VDC differential
- **Dimensions of Amp:** 81.6mm*62.5mm*33mm
- **Protection Circuitry:** Input clamping and power limiter circuit built in Amp.

Scan Speed

Scan angle	Operating voltage	Speed @ Mirror size	Speed @ Mirror size	Test Pattern
$\pm 30^\circ$ Opt	± 24 VDC	28Kpps @ 6*11*0.7	28Kpps @ 5*10*0.7	ILDA 30K
$\pm 20^\circ$ Opt	± 24 VDC	35Kpps @ 6*11*0.7	37Kpps @ 5*10*0.7	ILDA 30K
$\pm 15^\circ$ Opt	± 24 VDC	43Kpps @ 6*11*0.7	47Kpps @ 5*10*0.7	ILDA 30K
$\pm 8^\circ$ Opt	± 24 VDC	51Kpps @ 6*11*0.7	52Kpps @ 5*10*0.7	ILDA 30K
$\pm 5^\circ$ Opt	± 24 VDC	54Kpps @ 6*11*0.7	57Kpps @ 5*10*0.7	ILDA 30K

Contents of Shipping Package

- (1) 2 x 2800 Scanner (Galvo) with mirror
- (2) 2 x Scan V4.3A servo driver (Amp)
- (3) 1 x (X-Y) scanner mount
- (4) 1 x ± 24 VDC switched power supply
- (5) 2 x Shield cable for scanner