

SS2802 Scanning System

Summary

SS2802 is a low-cost and derivative scanning system from SS2800 and it also has no torsion bar. The galvo design of SS2802 uses our proprietary technology and it is a little different from that of SS2800 although the shape of SS2802 is almost same as that of SS2800.



The speed test using ILDA 30K test pattern shows that SS2802 can be tuned up to 30Kpps@± 20° and 38Kpps@± 15°, which are about 10%-15% lower than that of SS2800. SM2802 is a good choice for those who has a very tight budget for SS2800.

Technical Information

- **Max Scan angle:** ±30°optical (factory calibration @±20°)
- **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:** ±24VDC @1.2A each
- **Input Voltage:** ±5VDC 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
±30°Opt	±24 VDC	24Kpps @ 6*11*0.7	25Kpps @ 5*10*0.7	ILDA 30K
±20°Opt	±24 VDC	30Kpps @ 6*11*0.7	31Kpps @ 5*10*0.7	ILDA 30K
±15°Opt	±24 VDC	38Kpps @ 6*11*0.7	39Kpps @ 5*10*0.7	ILDA 30K
±8°Opt	±24 VDC	50Kpps @ 6*11*0.7	51Kpps @ 5*10*0.7	ILDA 30K
±5°Opt	±24 VDC	52Kpps @ 6*11*0.7	53Kpps @ 5*10*0.7	ILDA 30K

Contents of Shipping Package

- (1) 2 x 2802 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