

SS2815 Scanning System

Summary

SS2815 is the fastest close-loop scanner made in China for laser display so far. The galvo of SS2815 uses a double length magnetic rotator compared with that of SS2800. Therefore, SS2815 is more powerful than SS2800.



Our test result shows that SS2800 can be tuned up to 60Kpps @±12 °optical scan angle on ILDA 30K test pattern with mirror size of 0.7mm x 6mm x 11mm. It can even go up to 80Kpps @±5 °after optimizing the parameters of AMP (Scan V4.3A).

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	31Kpps @ 6*11*0.7	33Kpps @ 5*10*0.7	ILDA 30K
±20°Opt	±24 VDC	40Kpps @ 6*11*0.7	43Kpps @ 5*10*0.7	ILDA 30K
±15°Opt	±24 VDC	51Kpps @ 6*11*0.7	53Kpps @ 5*10*0.7	ILDA 30K
±12°Opt	±24 VDC	60Kpps @ 6*11*0.7	64Kpps @ 5*10*0.7	ILDA 30K
*±5°Opt	±24 VDC	80Kpps @ 6*11*0.7	82Kpps @ 5*10*0.7	ILDA 30K

*Note: R26=2M , R28=430K for ±5°Opt ILDA test

Contents of Shipping Package

- (1) 2 x 2815 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