

SS2804 Scanning System

Summary

SS2804 is the lowest cost scanner from Sonima and it should be the lowest cost close-loop scanner for laser display in the world so far. It is specially designed for low-cost laser projector powered by control board with embedded software. The galvo structure of SM2804 is based on our proprietary technology which makes the cost of galvo very lower



SM2804 is a smart choice if you design a laser projector with a preprogrammed control board inside. It can be tuned up to 23Kpp@+/-15° on ILDA 30K test pattern and can do “beam show” as well as “graphic show”.

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:** 12mm (diameter for fixture) x 42mm (length without mirror)
- **Power requirements:** ±15VDC @1A each
- **Input Voltage:** ±5VDC differential
- **Dimensions of Amp:** 75mm*40mm*35mm

Scan Speed

Scan angle	Operating voltage	Speed @ Mirror size	Speed @ Mirror size	Test Pattern
±30°Opt	±15 VDC	16Kpps @ 6*11*0.7	17Kpps @ 5*10*0.7	ILDA 30K
±20°Opt	±15 VDC	20Kpps @ 6*11*0.7	21Kpps @ 5*10*0.7	ILDA 30K
±15°Opt	±15 VDC	23Kpps @ 6*11*0.7	24Kpps @ 5*10*0.7	ILDA 30K
±8°Opt	±15 VDC	28Kpps @ 6*11*0.7	30Kpps @ 5*10*0.7	ILDA 30K
±5°Opt	±15 VDC	32Kpps @ 6*11*0.7	33Kpps @ 5*10*0.7	ILDA 30K

Contents of Shipping Package

- (1) 2 x 2804 Scanner (Galvo) with mirror
- (2) 2 x Scan V2.5G servo driver (Amp)
- (3) 1 x (X-Y) scanner mount
- (4) 1 x ±15 VDC switched power supply
- (5) 2 x Shield cable for scanner