

EOPC-SC-21 & EOPC-SC-25

The SC-21 and SC-25 type scanners are ideal for applications involving large optical beams, simultaneous imaging of multiple beams, or similar large amplitude applications. The scanners operate at one fixed frequency. Glass mirrors are standard, and metal mirrors, gratings, and lens (UV-IR-VIS) are available on special order.

The scanners require only minimal power. Since they are components that have no wearing parts, they provide excellent repeatability and long life. The scanners are used in varying applications including:

- Laser scanners and non-impact printers
- Barcode readers
- Raster scanners
- CAD/CAM systems
- Inspection systems and non-destructive testing instruments
- Intelligent transportation systems
- Biological and medical research
- Material research
- Machine vision and robotics

Operation at resonant frequency is sustained by a feedback amplifier type [ED driver](#) or the [AGC driver](#), using the scanner as a frequency source. The [AGC driver](#) also provides a higher amplitude stability (0.01%) and a position output signal. The [PLD-1S driver](#) will phase lock the scanner to an external clock signal. The [PLD-2S driver](#) will phase lock two scanners as a "master/slave" scanning system and the [PLD-2SXY driver](#) will phase lock two scanners as an "X-Y" scanning system.

SC-21 RESONANT OPTICAL SCANNER:

ONE FIXED FREQUENCY from the range of 15Hz to 2000Hz

The following should serve as guidelines only:

FREQ. (Hz)	SCAN ANGLE (P-P DEG OPT)	MIRROR SIZE (mm)
15-199	70°	30×30
200-299	70°	20×20
300-399	60°	10×10
300-399	40°	15×15
400-999	40°	10×10
400-999	30°	12×12
1000-1499	30°	10×10
1500-2000	24°	8×8

SC-25 RESONANT OPTICAL SCANNER:

ONE FIXED FREQUENCY from the range of 100Hz to 2000Hz

The following should serve as guidelines only:

FREQ. (Hz)	SCAN ANGLE (P-P DEG OPT)	MIRROR SIZE (mm)
15-199	60°	30×30
200-299	60°	20×20
300-399	50°	10×10
300-399	40°	12×12
400-999	40°	8×8
400-999	30°	10×10
1000-1499	30°	8×8
1500-2000	24°	6×6