## **Optical Chopper**

SR540 — Optical chopper system

- · 4 Hz to 3.7 kHz chopping frequencies
- Low phase jitter
- · Single and dual beam experiments
- · Sum & difference reference outputs







## -SR540 Specifications-

The SR540 chopper will handle all your optical chopping requirements — from simple measurements to dual-beam and intermodulation experiments. The SR540 has a 4-digit frequency display, front-panel frequency control, analog voltage frequency control, and two reference outputs with selectable operating modes. Two anodized aluminum blades are provided: a 5/6 slot blade for frequencies up to 400 Hz, and a 25/30 slot blade for frequencies up to 3.7 kHz. Reference outputs are provided for frequencies corresponding to each row of slots, as well as the sum and difference frequencies.

Chop frequency	4 Hz to 400 Hz (5/6 slot blade)
	400 Hz to 3.7 kHz (25/30 slot blade)
Fraguency stability	250 nnm/°C (typ.)

Frequency stability
Frequency drift
Phase jitter (rms)

250 ppm/°C (typ.)

<2 %, 100 Hz < f < 3700 Hz

0.2° (50 Hz to 400 Hz)

0.5° (400 Hz to 3.7 kHz)

Frequency display 4-digit, 1 Hz resolution and accuracy Frequency control 10-turn pot with 3 ranges:

4 Hz to 40 Hz 40 Hz to 400 Hz 400 Hz to 3.7 kHz

Input control voltage 0 to 10 VDC for 0 to 100% of

full scale. Control voltage overrides frequency dial.

Reference modes  $f_{\text{inner}}, f_{\text{outer}}, 5 \times f_{\text{outer}}, f_{\text{inner}} + f_{\text{outer}},$ 

 $f_{\text{outer}} - f_{\text{inner}}$ 

Dimensions Controller:  $7.7" \times 1.8" \times 5.1"$  (WHD) Head:  $2.8" \times 2.1" \times 1.0"$  (WHD)

Blade diameter  $4.04" \pm 0.002"$ Cable length 6 ft.

Cable length 6 ft.
Power 12 W, 100/120/220/240 VAC.

50/60 Hz

Warranty One year parts and labor on materials and workmanship, 90 days on motor

## **Ordering Information**

SR540	Optical chopper	\$1195
O5402530	25/30 dual-slot replacement blade	\$50
O54056	5/6 dual-slot replacement blade	\$50
O5405	5-slot replacement blade	\$50
O54030	30-slot replacement blade	\$50
O540RCH	Replacement chopper head	\$350