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



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.

Ordering Information

SR540 Optical chopper

O5402530 25/30 dual-slot replacement blade O54056 5/6 dual-slot replacement blade

O5405 5-slot replacement blade O54030 30-slot replacement blade O540RCH Replacement chopper head

SR540 Specifications

Chop frequency 4 Hz to 400 Hz (5/6 slot blade)

400 Hz to 3.7 kHz (25/30 slot blade)

Frequency stability 250 ppm/°C (typ.)

Frequency drift <2 %, 100 Hz < f < 3700 Hz Phase jitter (rms) 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_{inner} , f_{outer} , $5 \times f_{\text{outer}}$, $f_{\text{inner}} + f_{\text{outer}}$,

 $f_{
m outer} - f_{
m inner}$

Dimensions Controller: 7.7"×1.8"×5.1" (WHD)

Head: $2.8" \times 2.1" \times 1.0"$ (WHD)

Blade diameter $4.04" \pm 0.002"$

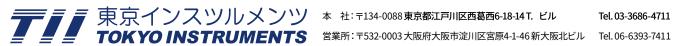
Cable length 6 ft.

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



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TI Group Company

UNISOKU 超高真空・極低温走査型プローブ顕微鏡 高速分光測定装置、クライオスタット は高東分光測定装置、クライオスタット Md:YAGレーザー、Ti:Sレーザー OPOレーザー

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