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.

### SR540 Specifications

- **Chop frequency**: 4 Hz to 3.7 kHz chopping frequencies
- **Frequency stability**: 400 Hz to 3.7 kHz (25/30 slot blade) 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**: \( f_{\text{inner}} \), \( f_{\text{outer}} \), \( 5 \times f_{\text{outer}} \), \( f_{\text{inner}} + f_{\text{outer}} \), \( f_{\text{outer}} - f_{\text{inner}} \)
- **Dimensions**:
  - Controller: 7.7” × 1.8” × 5.1” (WHD)
  - Head: 2.8” × 2.1” × 1.0” (WHD)
- **Blade diameter**: 4.04” ± 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

### Ordering Information

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<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Price</th>
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<tr>
<td>SR540</td>
<td>Optical chopper</td>
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<td>O540RCH</td>
<td>Replacement chopper head</td>
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