

SR-600

Optical Chopper



A variable-frequency radiation modulator, the SR-600 is a high performance, versatile chopper, including IR jammer simulation and low-level radiation detection.

Designed to be robust and flexible, the SR-600 uses interchangeable blades for various chopping frequency ranges.

The SR-600 can be used as a stand-alone unit or mounted to other CI Systems products, such as the SR-200N cavity blackbodies or the ILET collimator.

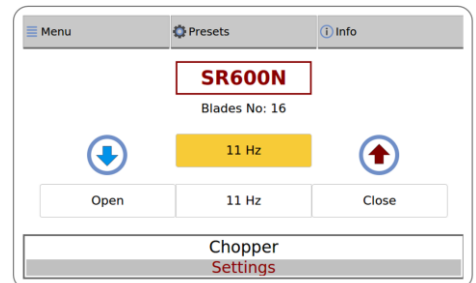
Tasks are performed through the user-friendly control software.

FEATURES

- ▶ Closed loop control
- ▶ 1 to 20,000Hz chopping frequency
- ▶ TTL reference signal output
- ▶ Built-in test
- ▶ CE Certified

Controller features:

- ▶ Large color LCD display with touch screen user interface
- ▶ Ability to control up to four motorized devices
- ▶ Certified to MIL-T-28800D, CE, and FCC
- ▶ Compact and portable
- ▶ 19" rack-mount kit included
- ▶ Communication ports: Ethernet and RS-232 (optional GPIB)



Intuitive touch screens for controlling the system

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» SPECIFICATIONS

Frequency range	1 to 20,000 Hz (See table below, option: 0.2-0.9Hz)
Frequency readout accuracy	1-10,000Hz; ± 0.2 Hz 10-20KHz; ± 0.5 Hz
Display Resolution	1 Hz, digital
Chopper reference signal	Square wave, TTL compatible
Computer control	Ethernet, RS232 (GPIB Optional)
Motor	Direct current with optical encoder
Type of control	Closed loop with optical encoder feedback
Power supply	95 to 240 VAC, 50/60 Hz, 15 Watt

» OPTIONAL BLADES SPECIFICATIONS

Blade Model	Blade Frequency [range -Hz]	Stability	Maximum Usable Aperture Diameter [mm]
SC (slow chopper with C2 blade)	0.2 - 0.9, 1 – 250	0.1%, Min 0.2 Hz	25.4
C2	1 – 250	0.1%, Min 0.2 Hz	25.4
C8	10 – 1,000	0.1%, Min 0.2 Hz	22.2
C16	10 – 2,000	0.1%, Min 0.2 Hz	9.5
C40	10 – 5,000	0.1%, Min 0.2 Hz	3.2
C80	10 – 10,000	0.1%, Min 0.5 Hz	1.6
C160	100 – 20,000	0.1%, Min 0.5 Hz	0.8

Specifications are subject to change without prior notice. Cat. No. 607-4910E June 2021