

# » Optical Choppers

## SR-600



A variable frequency radiation modulator, the SR-600 is a high performance chopper for many applications, 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 products, such as the SR-200 cavity blackbodies or the ILET collimator.

User-friendly software is installed that enables the user to perform the desired tasks easily.

### » IMPROVED EASE OF USE

- ▶ Ability to control up to four motorized devices
- ▶ Ethernet and RS232 communication ports, USB communication by serial adaptor.
- ▶ Large color LCD display
- ▶ Touch screen user interface
- ▶ Compact and portable controller
- ▶ 19" rack mount kit included

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## » FEATURES

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

## » SPECIFICATIONS

Frequency range	1 to 20,000 Hz (using interchangeable blades, option: 0.2-0.9Hz)
Frequency readout accuracy	1-10,000Hz; $\pm 0.2$ Hz 10-20KHz; $\pm 0.5$ Hz
Display Resolution	1 Hz, digital
Chopper reference signal	Square wave, TTL compatible
Computer control	Ethernet, GPIB, RS232
Motor	Direct current with optical encoder
Type of control	Closed loop with optical encoder feedback
Power supply	230/115 VAC, 15 Watt, 50/60 Hz

Blade Model	Blade Frequency [range -Hz]	Stability	Maximum Usable Aperture Diameter[mm]
SC - slow chopper (+ C2 blade)	0.2 - 0.9, 1-250	0.1%, Min 0.2 Hz	25.4
C-2	1-250	0.1%, Min 0.2 Hz	25.4
C-8	10-1,000	0.1%, Min 0.2 Hz	22.2
C-16	10-2,000	0.1%, Min 0.2 Hz	9.5
C-40	10-5,000	0.1%, Min 0.2 Hz	3.2
C-80	10-10,000	0.1%, Min 0.5 Hz	1.6
C-160	100-20,000	0.1%, Min 0.5 Hz	0.8