



C-995

Variable Speed Microprocessor Controlled Optical Chopper



Benefits:

- Wide Frequency Range
- Single Blade 4 Hz - 5 KHz
- Crystal Controlled Stability
- External Clock Synchronization
- Bright 5 Digit LED Display
- Adjustable Aperture Height
- Enclosed Blade
- Frequency Resolution 1mHz
- Bidirectional Rs-232 Port

The C-995 is a microprocessor-based control system that utilizes direct-digital-synthesis to deliver precise optical chopping rates from 4 Hz to 5000 Hz. Equipped with a large five-digit LED readout, the C-995 controller enables digital entry of the desired chopping rates from the front panel. Additionally, the C-995 is equipped with a bi-directional Rs-232 port that permits the user to set the desired chopping rate to a resolution of .001 Hz and to read the status of the instrument.

The C-995, designed with a phase-locked-loop control system, allows the chopping rate to also be synchronized

to a user-supplied external clock ranging from 4 Hz to 5 KHz. The controller is then used to read the frequency of the external clock.

The C-995 chopping head is attached to the controller by means of a 10 foot coiled cord. The precision etched blade is fully enclosed for protection from inadvertent damage. There are two apertures and two sections (30 slots and 3 slots) for the high and low frequency ranges, respectively. The aperture diameter is 15 mm with a slot width of 4.5 mm (30 slot section) or 30 mm (3 slot section).

The small 4.75 inch square outline and two inch maximum

depth permits easy integration into compact optical setups. Dual #8-32 mounting holes permit the apertures to be placed at a height as low as 0.75 inches above an optical bench, or with the included 1/2 inch rod and stand, as high as 13 inches above the mounting surface

The ease of use and convenience of this instrument are matched only by the high performance to price ratio that is typical of products from Terahertz Technologies Inc. The C-995 is backed by our standard two year warranty and our guarantee of customer satisfaction.

C-995 Specifications

TTI reserves the right to change specifications w/o notice

Frequency Range.....	4.0 Hz to 500 Hz (using inner set of slots) 40 Hz to 5000 Hz (using outer set of slots)
Apertures Size.....	0.6 Inch Diameter (15 mm), 0.6 and 0.2 Inch radially
Frequency Readout Accuracy.....	Setting Accuracy 0.0025%
Phase Jitter.....	0.1% peak-to-peak, 3 slot, 1.0% peak-to-peak, 30 slot
Settling Time to Phase-Lock.....	<5 seconds
External Frequency Input.....	TTL/CMOS Compatible, 40 Hz - 5000 Hz
Frequency Output.....	TTL / CMOS Compatible Square Wave
Display.....	5 Digit LED, High Intensity Green 0.5 inch High
Power Required.....	Universal 85V to 260V, 50/60Hz
Dimensions.....	Chopper: 4.5" H x 4.5" W x 2" D Controller: 2.7" H x 7" W x 9" D
Weight.....	3 lbs.
Operating Temperature.....	0 - 40 C
Limited Warranty.....	2 Years from date of receipt

Chopper Heads



Enclosed Blade



Open Blade

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