justable from room temperature to 65°C. An accessory cooling coil is available for operation below room temperature. A vacuum of 10⁻⁴ Hg may be maintained in the chamber. A transparent window permits photosynthetic organisms to be grown with a controlled light source. (National Appliance Co., Dept. 132)

- PANORAMIC ANALYZER measures radio-frequency signals up to 1000 Mcy/sec. Resolution varies from 3 kcy/sec at a rapid scan rate down to less than 10 kcy/sec. Scan rate is variable from 0.1 to 30 kcy/sec. Direct sensitivity is 20 μv full-scale, and conversion sensitivity is 2 mv. Preset narrow-band scans of 150, 500, 2000, and 10,000 kcy/sec are provided. Display is on a 5-in., high-persistence cathode-ray tube. Logarithmic, linear, and square-law scales are provided. (Panoramic Radio Products, Inc., Dept. 131)

- FOUR-CHANNEL OSCILLOSCOPE uses a square-face, four-gun, cathode-ray tube. Frequency range is from 0.1 to 5 Mcy/sec. Five preamplifiers form an integral part of the instrument, and may be used in any combination on each of the four channels. Plug-in sweep generators permit viewing of all four channels on common or separate time bases. A calibrator-marker combines a square-wave voltage calibrator and a crystal-controlled 1-kcy/sec time-mark generator. (Electronic Tube Corporation, Dept. 119)

- RATE METER combines linear and logarithmic display. The instrument also will drive standard potentiometer- or galvanometer-type recorders. The linear scale has ten ranges, from 0 to 30 to 0 to 10° count/min. The logarithmic scale covers five cycles in a single range from 1 to 10° count/min. (Baird-Aтомic Inc., Dept. 130)

- TIMER monitors development time for Polaroid-type oscilloscope record camera. Settings can be adjusted from 30 to 120 sec. The timer, which attaches to the camera, rings an alarm to alert the operator at the correct time for removal of the film from the camera. (Allen B. DuMont Laboratories, Inc., Dept. 127)

- VACUUM GAGE is useful in the pressure range 10⁻⁸ to 10⁻¹¹ Hg. Ion current is 100 times that of the Bayard-Alpert ionization gage at the same pressure with filament emission 1 millionth as large. Electron trajectories of 10° cm are obtained. Positive ions produced by collisions with gas molecules are attracted to the negative end plates constituting the ion current. Pumping speed of the gage for helium is up to 0.1 liter/sec. (General Electric Co., Dept. 138)

JOSHUA STERN
National Bureau of Standards

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