

ogy, 53rd annual mtg., Washington, D.C. (R. G. Keser, 211 E. Chicago Ave., Chicago, Ill. 60611)

25-28. Congress of Neurological Surgeons, 17th annual mtg., San Francisco, Calif. (J. M. Thompson, 1955 Blossom Way S, St. Petersburg, Fla. 33712)

26-27. American Society for Cybernetics, symp., Washington, D.C. (C. Hammer, UNIVAC Div., Sperry Rand Corp., 2121 Wisconsin Ave., NW, Washington, D.C. 20007)

26-27. Educational Records Bureau, 32nd annual conf., New York, N.Y. (W. S. Litterick, 21 Audubon Ave., New York 10032)

26-27. Planetology and Space Mission Planning, New York, N.Y. (R. D. Enzmann, 29 Adams St., Lexington, Mass.)

26-28. Unconventional Photographic Systems, symp., Washington, D.C. (H. J. Hall, 10 Maguire Rd., Lexington, Mass.)

26-29. Photographic Interaction between Radiation and Matter, colloquium, Washington, D.C. (Society of Photographic Scientists and Engineers, 1330 Massachusetts Ave., NW, Washington 20005)

27-28. American Soc. of Ophthalmologic and Otorhinolaryngologic Allergy, annual mtg., Chicago, Ill. (L. El. Morrison, 603 Hume Mansur Bldg., Indianapolis, Ind.)

27-28. Dyslexia, 18th annual, New York, N.Y. (J. B. Bigelow, Pomfret, Conn. 06258)

28-29. American College of Dentists, Washington, D.C. (O. W. Brandhorst, American College of Dentists, 4326 Lindell Blvd., St. Louis, Mo. 63108)

28-2. American Fracture Assoc., annual mtg., Chicago, Ill. (H. W. Wellmerling, 610 Griesheim Bldg., Bloomington, Ill. 61701)

29-1. Association for Research in Ophthalmology, annual mtg., Chicago, Ill. (Secretary-Treasurer, Univ. of Florida, College of Medicine, Gainesville 32603)

29-4. American College of Gastroenterology, 32nd annual conv., Los Angeles, Calif. (D. Weiss, 33 W. 60 St., New York 10023)

30-2. American Dental Assoc., 108th annual mtg., Washington, D.C. (H. Hillenbrand, 211 E. Chicago Ave., Chicago, Ill.)

30-2. Nuclear Science, 14th symp., Los Angeles, Calif. (R. E. Emberson, 345 E. 47 St., New York 10017)

31-2. Numerical Prediction, conf. Monterey, Calif. (K. C. Spengler, 45 Beacon St., Boston, Mass. 02108)

31-3. Society for Experimental Stress Analysis, annual mtg., Chicago, Ill. (B. E. Rossi, 21 Bridge Sq., Westport, Conn.)

International and Foreign Meetings

25-26. Biosciences Information Service of Biological Abstracts, intl. conf., Philadelphia, Pa. (J. E. Creps, Jr., 2100 Arch St., Philadelphia 19103)

25-27. Potency Control of Vaccines, symp., London, England. (J. P. R. Toothill, c/o Glaxo Research Ltd., Greenford, Middlesex, England)

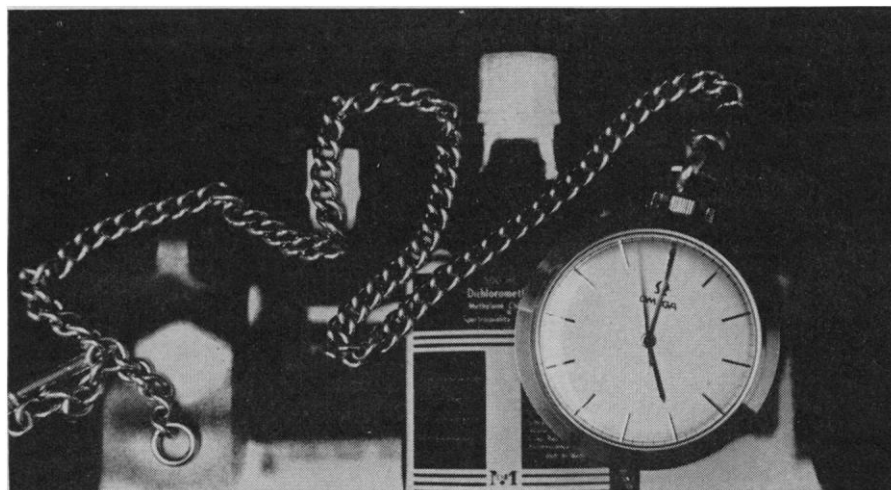
25-28. International Union of the Medical Press, 8th congr., Prague, Czechoslovakia. (M. Zdenek, Capajevovo Nam. 9, Prague)

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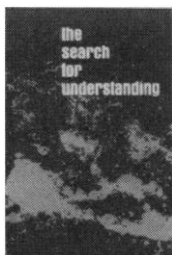
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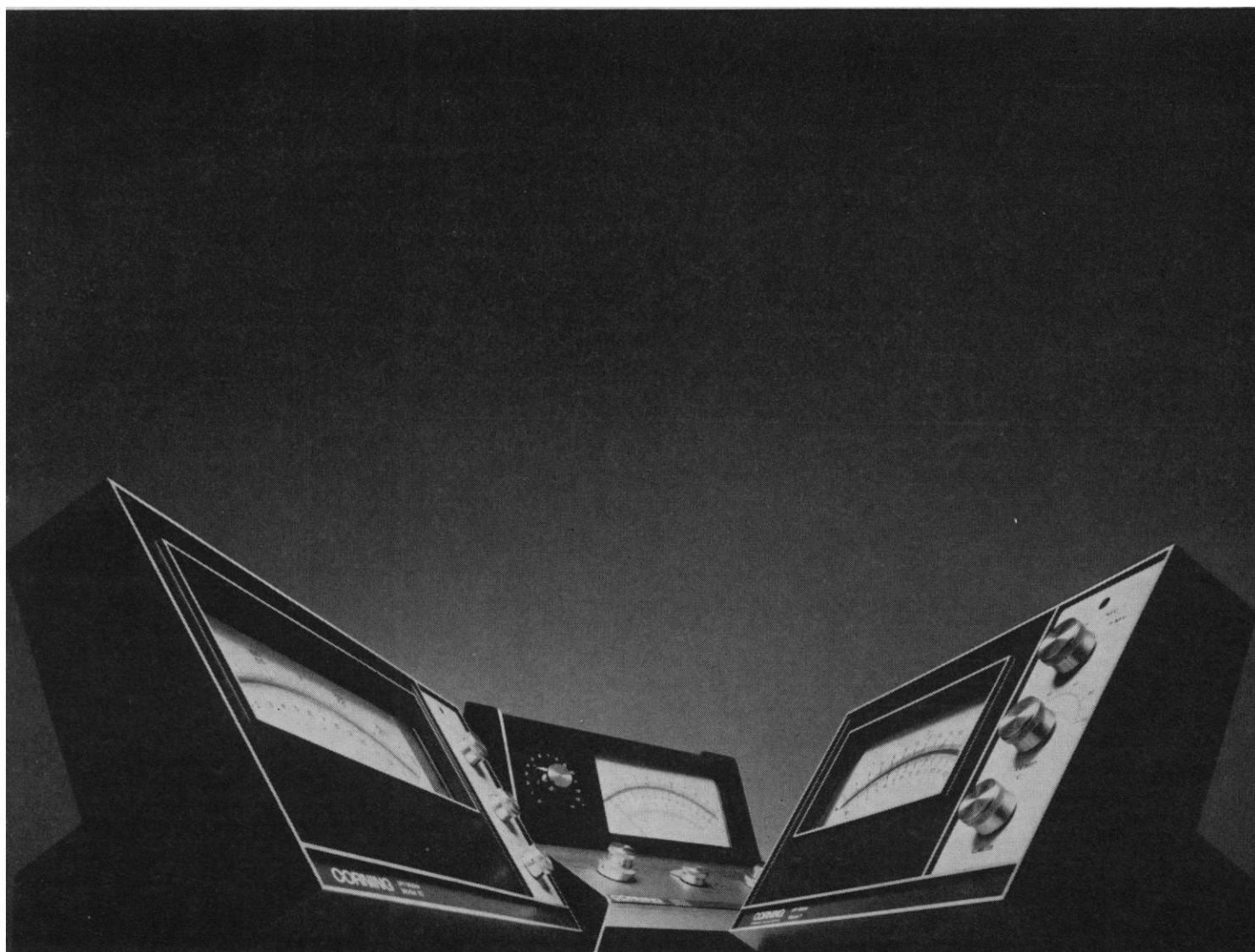
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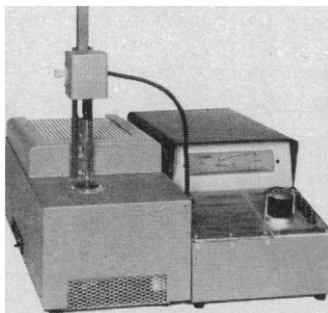
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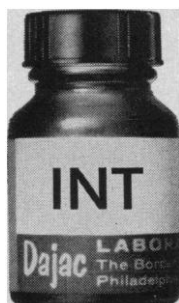
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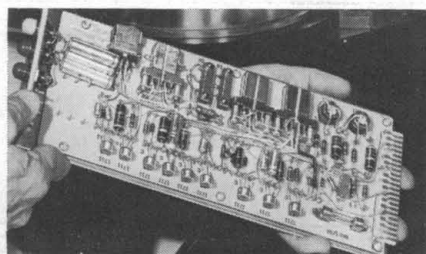
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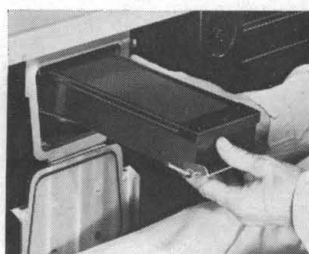
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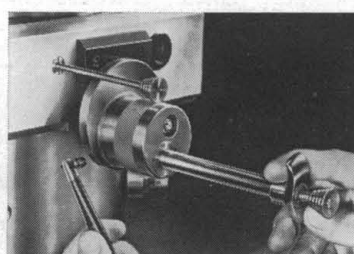
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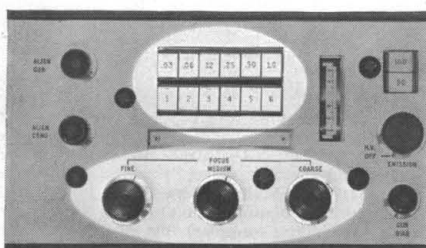
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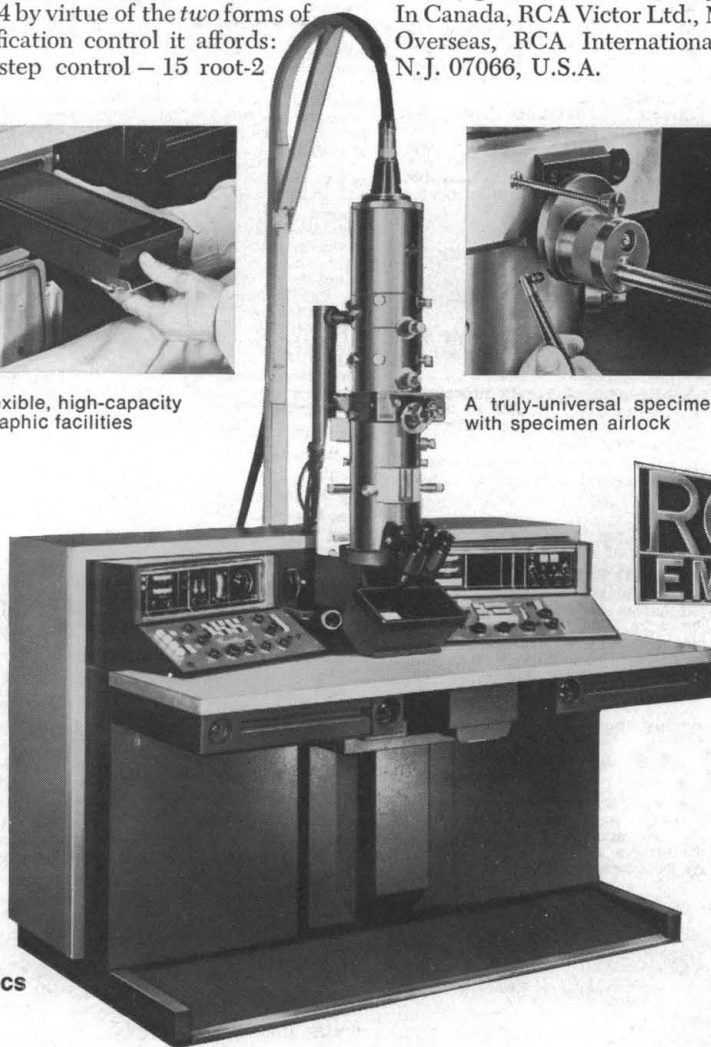
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A double beam, diffraction grating instrument with high speed wavelength scanning drive, for fully automatic ratio recording. Scale readout is linear in both absorbance and transmittance. Wavelength settings can be made reproducibly to 0.5 $m\mu$. Incorporates wide range phototube and deuterium and tungsten light sources to provide UV-Visible range of 190 to 800 $m\mu$. Usable also manually and in single beam mode for energy recording against wavelength or time. Special provisions made in circuitry for synchronized coupling of wavelength drive with chart drive of Coleman 165 Recorder.

Linear Absorbance Readout (Fig. 1). Mirrored scale, 5½ inches long, is graduated in 100 equal divisions for 0 to 1 absorbance or %T readings, and similarly from 0 to 2 for extended absorbance range. Expansion of the direct-reading absorbance scale is accomplished by panel switch.

Double Beam System. Rotating mirror directs monochromator beam alternately through sample and reference cells.

Wavelength Scanning Drive. Rates 30, 60, 120, and 240 $m\mu$ per minute.

Wavelength Dial (Fig. 2). Uniformly spaced scale divisions, corresponding to 1 $m\mu$, are 2.4 mm wide for easily reproducible settings.

Dimensions: 26 inches long \times 16 inches deep \times 12 inches high.

Photometric accuracy— $\pm 0.5\%$ T; ± 0.005 A on 0-1 absorbance scale, ± 0.01 on 0-2 absorbance scale.

Wavelength accuracy— ± 0.5 $m\mu$ throughout.

Wavelength reproducibility— ± 0.2 $m\mu$.

Photometric reproducibility— $\pm 0.2\%$ T.

Dual Light Source—Tungsten and deuterium lamps instantly interchangeable.

9093-A15. Spectrophotometer, Double Beam, Model 124 (Coleman 124-0008), range 190 to 800 $m\mu$, as described. With a.c. power unit, deuterium and tungsten lamps, cell holder, two 10 mm silica cells, etc. For 115 volts, 60 cycles, a.c.; 140 watts. *Without Recorder*..... **3,495.00**

RECORDER, COLEMAN MODEL 165 HITACHI. Combines fast, accurate pen response, high speed chart travel, and excellent base-line stability for optimal fidelity in recording output of rapid scanning spectrophotometer. Response is strictly linear. Specially designed for use with Coleman 124 Spectrophotometer to provide automatic ratio recording of absorbance or transmittance.

8592-B10. Recorder, Coleman 165 Hitachi, as described, with one roll of chart paper, ink, etc. For 115 volts, 60 cycles, a.c.; 30 watts..... **975.00**

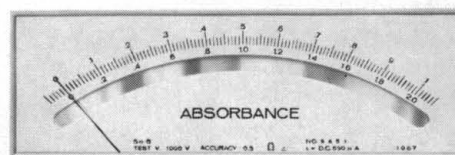


Fig. 1. Absorbance and Transmittance scale.

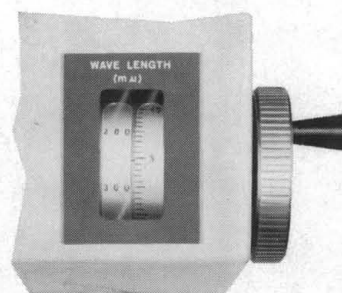


Fig. 2. Linear wavelength drum. Provides easy readability and accurate reproduction of wavelength settings to 0.5 $m\mu$.

Recorder Specifications

Accuracy— $\pm 0.25\%$, 1 mv range; others $\pm 0.5\%$.

Ranges—1, 2, 5, 10, 20, 50, 100, 200, 500 mv; 1 and 10 volts d.c.

Chart speeds—5, 10, 20, 60, 120, 240 mm/min.

Pen speed—less than 1 second full scale.

Input impedance—100 K maximum.

Chart—240 mm wide; 100 divisions.

Detailed Bulletin 145 sent upon request



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