

BECKMAN PHOTOELECTRIC

QUARTZ SPECTROPHOTOMETER

AVAILABLE FOR IMMEDIATE SHIPMENT FROM OUR STOCK



9101-A2.

QUARTZ SPECTROPHOTOMETER, Beckman Photoelectric. A self-contained unit with which a wide variety of research and control work can be conducted with convenience, speed and precision. Consisting of quartz monochromator with light source, holder for absorption cells, twin phototubes and built-in electronic meter for translating phototube currents into direct readings of percentage transmission and density. See Cary and Beckman, *Journal of the Optical Society of America*, Vol. 31, No. 11, (Nov., 1941), p. 682.

Wavelength scale approx. 100 cm long, readable and reproducible to 0.1 mμ in the ultraviolet and to 1.0 mμ in the infrared, with scale accuracy of 1 mμ. Built-in potentiometer and electronic amplifier makes possible direct readings in percentage transmission and density. Switch position "0.1" provides a ten-fold expansion of the transmission scale for more accurate readings on solutions below 10% transmission.

The new model No. 2400 is provided with a liquid-cooled, cast metal lamp housing which takes tungsten, hydrogen and mercury lamps mounted on self-aligning, interchangeable backplates. In addition, a resistor box assembly (*not shown in illustration*), with three-position switch, is attached to the phototube compartment for rapid and convenient selection of proper phototube load resistor to regulate the sensitivity for alternate use in transmission and flame photometry.

- 9101-A2. Quartz Spectrophotometer, Beckman Photoelectric, Model DU, (No. 2400), range 320 to 1000 mμ, as above described, with 6-volt tungsten lamp in liquid-cooled lamp housing with interchangeable backplate, one each ultraviolet-sensitive and caesium-oxide phototubes, resistor box assembly, matched set of four square fused Correx glass absorption cells for 10 mm liquid depth and 4-place holder. With dry cells for operating the meter but without 6-volt storage battery for operating the tungsten lamp and electronic tubes 1,200.00
- 9101-B2. Ditto, Model DUV, range 220 to 1000 mμ, identical with above but with the addition of ultraviolet accessories consisting of one pair of matched fused silica absorption cells for 10 mm liquid depth, hydrogen discharge lamp on interchangeable backplate, and power supply unit, 115 volts, 50/60 cycles, a.c. 1,500.00

More detailed information regarding above, and also Flame Photometer, Diffuse Reflectance and Fluorescence Attachments, and Test Tube Carrier Assembly, sent upon request.

We maintain a qualified technological staff for consultation, repair and service in connection with above and similar instruments sold by us.

ARTHUR H. THOMAS COMPANY

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