

margin, depending upon the installation. The preamplifier weighs only 47 lb and occupies a space, the dimensions of which are 12 by 12 by 14½ in. The price range is from \$3250.00 to \$5300.00 depending upon frequency and type of mounting (indoor or outdoor).

A low-level, current-limiting device said to be capable of ± 1 micromho has been announced by CircuitDyne Corp., 480 Mermaid St., Laguna Beach, Calif. Designated Model CP-8, the device is a two-terminal component that may be specified with any current level from 2.1 to 1 ma in 5% increments. Measuring 0.8 in. in diameter and 1.05 in. long, it is encapsulated in epoxy and is available with single-ended or axial leads. Price range is from \$22.50 to \$34.50.

The Elgenco Model 311A Noise Generator used to provide simultaneously two random voltage outputs with stable regulated rms levels is a product of Elgenco, Inc., 1231 Colorado Ave., Santa Monica, Calif. A special noise regulator circuit that compares the noise level with a zener reference is incorporated to assure stability of the rms levels. Electronically filtered and regulated filament and plate supplies are used to achieve extremely low hum components in the noise spectrum and a solid state chopper is used to provide the desired stable low-frequency spectrum. Among other applications, the noise generator is used with analog computers having a repetitive or iterative mode to study effects of random disturbances on satellite, guided missile and fire control systems.

Extremely small variations in the surfaces of polished flat semiconductor materials may be detected by means of a simple and inexpensive method devised by Miles V. Sullivan of Bell Telephone Laboratories. Light from a small tungsten-filament lamp is made to shine on the surface of the material and is reflected onto a screen or ground glass. Ripples or defects in the surface are enlarged and accentuated in the image on the screen. For example, a defect about 0.025 mm wide may easily be magnified to 6.3 mm when projected onto a screen 20 mm away. The relative position of any defects on the specimen can easily be determined because the entire surface can be viewed at one time. No lenses are needed for forming, examining or photographing the image. The analyzer has been found to be useful in the development of new chemical and electrochemical semiconductor polishing techniques.

A new series of diffusion pumps designed for special ultra-high vacuum chambers used in solid state and space simulation projects, has been announced by NRC Equipment Corp., a subsidiary of National Research Corp., 70 Memorial Dr., Cambridge 42, Mass. Designated the HK series, the fractionating oil diffusion pumps are available in 4-, 6- and 10-in. sizes. The new pumps are designed to provide more safeguards against danger of any leaks or outgassing developing, and also to allow for more flexibility in sealing.

An hermetic seal made from Teflon resin has been developed by Tri-Point Industries, Inc., 175 I.U. Willets Rd., Albertson, L.I., N.Y. Said to be unaffected by thermal cycling, corrosives and mechanical shock, the process was developed specifically to seal Teflon-insulated wire, bare conductors and hollow structures into Teflon mounting plates for electrical and electronic service requiring an hermetic seal. The process may also be used to produce Teflon components for chemical and mechanical applications.



employment service

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Positions Wanted

Girl Friday—Writer—Research. 2 yrs experience film, audio-visual materials, M.F.A. Columbia Univ., seeks position with film or TV company, New York. Box 223, New York 14, N.Y.

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Producer, Director, Writer, Editor. TV commercials — travelogues — industrials — theatrical full-length features. Experienced motion-picture production—motion-picture laboratory management—graphic arts. Member Writers Guild of America. Published novelist. Working film editor. All phases motion pictures. 41 yrs of age. Drive—business acumen. Direct sales experience. Wishes to relocate. Starting salary low provided prospects are bright. For full resume please write: 607 Market St., San Francisco 5, Calif.

Motion Picture Engineer/Administrator. Over 15 yrs motion-picture photography, editorial, sound and complete laboratory experience. Have managerial experience in film production and lab. Have designed specialized motion-picture equipment. Interested in operating or organizing industrial or an educational film unit or becoming a part of an aggressive film company. Equipment sales a possibility. Resume upon request. Write P.O. Box 7112, Pittsburgh 13, Pa.

Cameraman—Film Editor. Hollywood cameraman—film editor both 16 and 35mm. Member of cameramen's and film editors' union. Fully experienced in animation, optical special effects and live production. Desires change of location to smaller community where there are no freeways and the air is fresh and pure. UCLA motion-picture graduate, veteran, 35 yrs old, married, family. Presently employed by large

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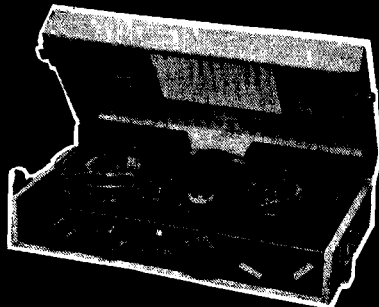
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Cinematographer—Screen Director. Nine yrs extensive experience motion-picture editing and sound recording. Desires position with growing motion-picture production company with opportunity for further professional development. Background: production of educational, documentary, publicity films, U. S. and foreign locations; TV and audio recording engineering. First class telephone license. Conducted workshop in motion-picture techniques at college level. Married, willing to relocate, conscientious and responsible. Write: J.P., 40 James St., Ossining, N.Y.

Motion-Picture/TV Technical Executive Assistant. E.E., M.B.A., enrolled in professional courses in cinematography, with magnetics, high-fidelity and some motion-picture experience, interested in working in motion-picture or TV field in administrative or technical position. Will consider offers in all aspects of the industry. Salary open. New York only. Write: "Audiometric," 400 West End Ave., 11c, New York 24, or call TR 4-5844 eves.

Director-Cameraman-Editor. Young energetic man, age 32, married, children, seeks position in Los Angeles area with motion-picture company, theatrical, industrial or educational, providing opportunity for increased responsibility. Strong production and laboratory experience. Electrical engineering degree and good knowledge sound recording. A. Akarakian, 11200 McDonald St., Culver City, Calif.

Still/Motion-Picture Photographer & Lab Technician. 26 yrs experience in all phases photography. Formerly 4½ yrs with RCA Service Co. as Atlantic Missile Range photographer and BMEWS Photographic Co-ordinator. Presently free-lancing in Brazil doing public relations photography for USIS as well as TV and newspaper advertising. Returning to US shortly. Will send full resume on request. Earl W. Cavin, U.S. Consulate, Recife Pernambuco, Brazil, South America.

Positions Available

Cameraman-Editor. We need help in producing some of the nation's finest television commercials and industrial films. If you are a talented cameraman and/or editor, send resume to: Keitz and Herndon, Inc., 3601 Oak Grove, Dallas, Texas.

Theatre Sound & Projection Engineer. Experienced sound and projection engineer required to service chain of theatres in North Jersey area, working out of Newark, N.J. Contact C. A. Piltz, 17 Academy St., Newark, N.J. Tel: MI 2-7000.

Maintenance Specialist, Motion-Picture Processing. Kentron Hawaii Ltd. has opening at Kwajalein Pacific Missile Range Facility, Marshall Islands. Applicants must be single. Extensive experience essential in inspection, repair, calibration, overhaul, modification, etc. of all control, operational and recording instruments used on black-and-white and color processing machines. Electrical and/or electronic maintenance, power wiring and electronic control experience desirable. Blueprint reading, shop math, and ability to maintain up-to-date maintenance histories would be helpful. Finan-

cial benefits well above average since the area is income-tax free and board and room are supplied. Additional information from: Kentron Range Systems Div., Att: A. McGlamery, Jr., P.O. Box 51, Naval Missile Center, Pt. Mugu, Calif. Resume should be sent airmail to: H. S. Weisbrod, Photo-Optics Supervisor, Kentron Range Systems Div., Navy 824, Box 1207 c/o FPO San Francisco, Calif.

Camera Tube Applications Engineer. Experience in studio operations of TV stations in black-and-white and color. Analysis of tube designs and new operating techniques and liaison between customer and design labs. Some travel required. Should have working knowledge of TV camera circuits and optical systems. Minimum education: BS in EE or Physics. Career satisfaction assured in RCA's planned advancement programs, modern facilities, liberal benefits and tuition refund plan for advanced study. Send resume to M. J. McLaughlin, Radio Corp. of America, Lancaster, Pa.

Technical Personnel. Wanted immediately:

2 Camera maintenance and repair men, experienced on Mitchell, Auricon and Arriflex.

2 Moviola maintenance and repair men, experienced.

1 Sound projector repair man.

1 Audio maintenance and repair man, experienced on Magnasync, Ampex, Nagra. General knowledge electronics.

2 Machinists, experienced motion-picture equipment including lens mounting.

2 Lighting technicians, experienced Mole-Richardson equipment.

3 General apprentices interested in learning above skills.

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Sales Promotion Executive wanted. Experienced motion-picture equipment, advertising, publicity, catalog and brochure layout and planning, mail order, export and correspondence. Write to: Arthur Florman, Florman & Babb, Inc., 68 West 45 St., New York 36, N.Y.

Salesmen. Professional motion-picture equipment. Prefer persons with technical background as well as sales and rental experience. Send resume to Charles Lipow, General Manager, The Camera Mart, Inc., 1845 Broadway, New York 23, or phone PLaza 7-6977.

Photographic Instrumentation Specialists. Qualified, experienced men needed for work in R&D areas manned spaceflight. Call or write Mr. Tyler, Texas Industrial Film Company, 2528 North Boulevard, Houston 6, Texas.

Instructor in Film Education. AB degree, with background in sound recording, b&w laboratory procedures, camera experience, well rounded in all phases 16mm production. Salary range \$6000-\$6600 depending on qualifications and experience. Send complete resume to Chairman, Radio-TV-Film Department, University of Miami, Coral Gables 46, Fla.

Motion-Picture Film Laboratory requires top man thoroughly versed in all phases of film processing. Must have supervisory ability. Excellent future. Mail complete resume to Howard Warren, Executive Director, Tele-Screen Studios, 12100 N.E. 16th Ave., North Miami 61, Fla. Phone 757-4507.

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mentary motion-picture techniques: editing,
script writing, filming, planning, coordination,
etc. Experience in supervision: handling per-
sonnel, dealing with customers, scheduling work,
adjusting work schedules to meet priorities, ill-
ness, leaves, etc. Working knowledge of indus-
trial still photography: experience in laboratory
procedures, photographic techniques, laboratory
organization, work scheduling, work flow, etc.
Working knowledge of photographic equipment
maintenance desirable but not mandatory.

Still Photographer. Single, divorced or sepa-
rated. Free to travel to Kwajalein. Considerable
experience in industrial or commercial still
photography: shooting, processing, printing, re-
touching, etc. Experienced in still processing and
printing techniques for black-and-white as well
as color negative, and B/W films. Ability and
willingness to process and print in the laboratory
as well as perform photographic assignment in
studio or in the field; work is divided propor-
tionately. Working knowledge of photographic
equipment maintenance desirable but not
mandatory.

Camera Repairman. For Sequence and Surveil-
lance Section. Single, divorced or separated.
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perience in camera repair and maintenance;
will repair all equipment in a complex still
photographic section plus assorted high-speed and
documentary motion-picture cameras. Pre-
vious directly related camera repair experience
essential. Experience in set-up and operation of
high-speed camera instrumentation, and
operation and maintenance of optical tracking
equipment, desirable but not mandatory. For
this and the two previous positions listed above
send resume airmail to: H. S. Weisbrod, Photo-
Optics Supervisor, Kentron Range Systems Div.,
Navy 284, Box 1207 c/o FPO San Francisco,
Calif.

Editorial Assistant. New York City educational
and documentary film producer needs an edi-
torial assistant experienced in both 16mm and
35mm editing procedures, including breakdown
of rushes, syncing dailies, use of viewer, silent
and sound moviolas, sequence assembly of
work print and track, matching negative, set-
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bility for quality and schedule, responsible for
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