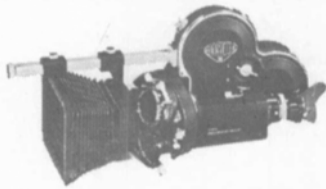


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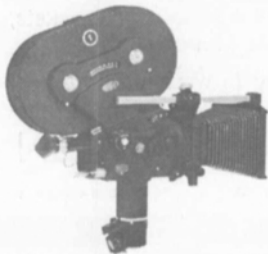


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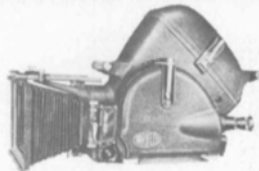
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transmission (loss of fine detail, poor focusing at the edges, etc.) are compensated by the low self-stability of the system.—S.C.G. (Translated from *Ref. Zh., Fotokinotekh.*)

The technical problems of television film recording, Parts I and II, A. B. Palmer, *Brit. Kinemat.*, 45: Pt. I, 81-99, Sept. 1964; Pt. II, 112-124, Oct. 1964.

Part I: The various methods of television film recording with a cine camera from a cathode-ray tube display are described. The recorder pictures tend to show flare; lack sharpness; have poor graduation; and show bands of density fluctuations. In refining the operation, four techniques are used: (a) the Suppressed Field System which takes one raster of the picture without the interlace, (b) the Stored Field System, (c) the Partial Stored Field System and (d) the Fast Pulldown System. If the gradation characteristics are to be maintained, extreme stability of cathode-ray tube display brightness, amplifier gain, film sensitivity and processing are needed. Common practice is to display a picture of low contrast and to use a negative stock working to a gamma of 1.0.

Part II: Several sources of image degeneration are discussed, including flare in the display tube, halation and the use of a glycerine cell before the tube as an antihalation device, as well as the use of tinted film base for the same purpose; loss of vertical resolution; the occurrence of a moiré effect on projecting telecine recordings, and the use of spot-wobble in mitigating this; and grain in both film and phosphor. The effect of these phenomena on the four main modes of telecine recording (see Pt. I; T.L.R. No. 3217/4) is discussed.—G.I.P.L.

Television cinematography of auroras and preliminary measurements of auroral velocities, T. N. Davis and G. T. Hicks, *J. Geophys. Research*, 69: 1931-1932, May 1964. NASA-RP-255. N64-26076.

This is a description of a series of tests performed on the usefulness of an image orthicon closed-circuit television system for indirect auroral photography. The system was equipped with an $f/0.75$ lens providing an effective field of view of 16° . Recording was accomplished by photographing the television monitor with a 16mm cinema camera. Operated at maximum sensitivity, the system allowed direct viewing of eighth and ninth magnitude stars on the television monitor. At this sensitivity level, the system was somewhat better than the unaided, dark-adapted human eye in the detection of weak auroral structures. No difficulty was found in obtaining auroral photographs of even the weakest structures with exposures of $\frac{1}{60}$ sec at the normal sound cinema rate.

A television spectrophotometer (in Russian), V. G. Podlaskin and A. I. Ryskin, *Tekh. Kino i Telev.*, 8: 50-54, May 1964.

An account is given of the working principles and basic circuits for a television installation with a superorthicon intended for the measurement of subject luminosity. Supplementary coils in the tube-transfer section provide for time-scanning of the image. A signal proportioned to the original luminosity is recorded on motion-picture film.—S.C.G. (Translation of author's abstract.)

employment service

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Positions Wanted

Cinematography Student. Seeks apprenticeship and challenging work. Some editing experience. Attended film courses in college, studied film independently. Had limited experience with Arriflex, Auricon cameras; Ampex and Nagra tape recorders; Magnasync systems. Age 26, single, ambitious, reliable, hard working. At age 16 started own manufacturing business with 3 employees. In college wrote for newspaper and was stage manager for Shakespearean drama. Skillful with hands. Active, creative imagination. Salary not important. Willing to travel or relocate. Leonard Kirtman, 1467 49 St., Brooklyn, N.Y. 11219.

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Cameraman for major educational Motion Picture Unit. Requirements include at least two years of college and two years experience in the field. Must be familiar with set construction, lighting and editing techniques. Good starting salary and fringe benefits. Send résumé and expected salary to: Marshall N. Lovrien, Manager Motion Picture Unit, The University of Iowa, Iowa City, Iowa.

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Motion-Picture Technicians. Experienced men wanted for repair, maint. all types professional mot-pic equipment. Rapidly expanding co. offers excellent working conditions, fringe benefits, advancement. Looking for professionals with knowledge one or more of these types of equipment: Mitchell, Moviola, Arriflex, Auricon, Bausch & Lomb, Nagra, RCA, Westrex, Magnasync, Mole-Richardson, etc. Relocation expense reimbursed. Send résumé giving details, experience, salary requirements to: Oliver E. Cain, F&B/Ceco, Inc. 315 West 43rd St., New York, N.Y.

Assistant to 16mm Production Manager: Must be thoroughly experienced with at least 5 years background 16mm B&W, color cinematography, lighting, creative editing in TV commercials, industrial films. Must have supervisory capability, top quality operative ability. Starting salary commensurate to capabilities. Send complete résumé, sample film and salary requirement to: E. Raymond Arn, President, Film Associates Inc. 4600 S. Dixie Highway Dayton, Ohio 45439.

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