

10 inches at 24 feet

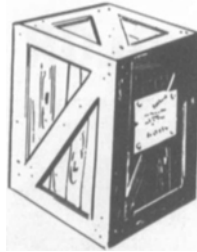
That's the light measurement selectivity you get with the Spotron Professional spot meter. Its 2° acceptance angle lets you zero in on small areas, even at a distance. Gives you precise readings for accurate control of exposure as well as scene contrast.

You see the subject upright and unreversed, the measured area represented by a circular target. The finder needle gives direct LV readings. Independent hi- and lo-level transistor circuits cover extreme range of light conditions. Price is under \$100.

Accessories include: closeup lenses (20", 12" and 4"), incident light attachment, LV/foot-candle scale, hand grip, and case. Also see the lower-priced Spotron Pentaview at your dealer, or write: Spotron division/Ehrenreich Photo-Optical Industries, Inc., Garden City, New York 11533.

(Canada: Anglphoto Ltd., Montreal 9, P.Q.)

PROFESSIONAL SPOTRON CdS Spot Exposure Meter



new products

(and developments)

.....
Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.

The S.O.S./Takita motion-picture printers are available in a variety of models and film formats, including CinemaScope, Techniscope, 35mm, 16mm, or double regular or super 8 equipped with standard or color light source, it was announced by S.O.S. Photo-Cine-Optics, Inc., 387 Park Ave. South, New York, N.Y. 10016. Most models of the continuous contact printers have a light source for both semiautomatic light control and fully automatic scene-to-scene density and color correction. Other features include printing sprocket for accurate registration, roller gate for improved resolution, 2000-ft film capacity and speeds of 90 ft/s for 35mm and 60 ft/s for 16mm and double super 8. A footage counter, light-change interrupter and indicator are included. Some models include a built-in selenium dc supply.

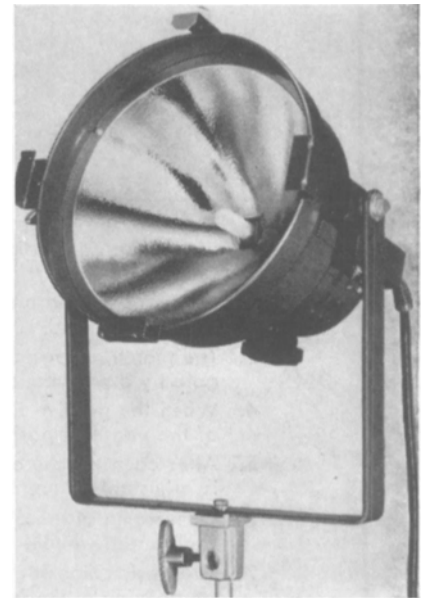
The optical printers can be darkroom or daylight operated. Single- or multi-image printers make copies from black-and-white, color negative or reversal film onto black-and-white, color positive, double 8 or super 8 film. The film speed is 12 ft/s on the negative side. The light source is available in standard 300-W or color 750-W bulbs.

A new processor/dryer for 16mm Ektachrome film (process ME-4) has been introduced by Pako Corp., 6300 Olson Memorial Hwy., Minneapolis, Minn. 55440. Designated Model 28EK, the machine is 11 ft long, 33 in. wide and 76 in. high. Total processing time is about 28 ft/min. The machine can be installed in a normally lighted room. Control of time, temperature, turbulence and chemical strength is automated; however, the controls are adjustable to meet specific sensitometric needs. The firm also announced Model 13KO, a processor/dryer for 126 and 35mm Kodacolor film. The machine accepts amateur films pre-spliced into long rolls, and processes and dries at a rate of about 13 ft/min.

A 1600-W xenon arc lamp for applications in color simulation, scientific instrumentation, color projection and other areas requiring high-intensity light sources has been introduced by PEK, Inc., 825 E. Evelyn Ave., Sunnyvale, Calif. The new lamp features ribbon-seal construction to prevent vibration damage. Average brightness is reported to be 75,000 cd/cm² with

equivalent color temperatures of about 6,000 K. The lamp is dc-operated and requires an ignition voltage of 40 kV. It is priced at \$315. The firm has also introduced a 1000-W lamp, priced at \$225, for similar applications.

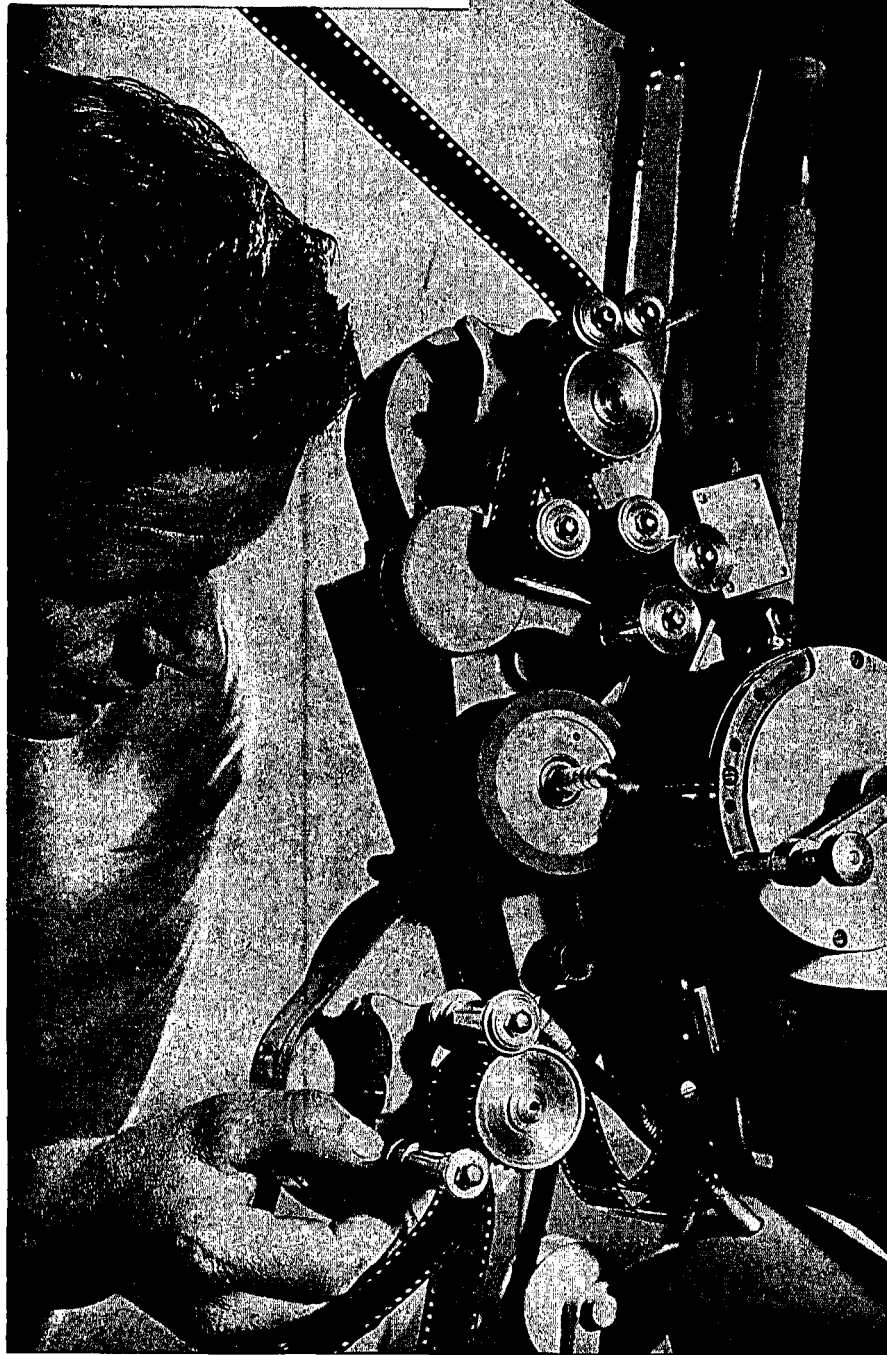
Development of a tungsten halogen projector lamp, designated BCK, has been announced by Sylvania Electric Products Inc., 730 Third Ave., New York, N.Y. 10017. Developed by Sylvania under an arrangement with Airequip Manufacturing Co. for use in a new line of slide projectors, the new 500-W lamp has an average rated life of 50 hr. The lamp has an all-tungsten internal structure, including the reflector. The support structure required for the C13D filament and internal reflector is also made of tungsten. The BCK uses a Tru-Focus base and socket and is interchangeable with existing CZA incandescent projector lamps.



A lensless light fixture called the Super-Beam "1000" has been introduced by ColorTran Industries, Inc., 1015 Chestnut St., Burbank, Calif. 91502. Designed to permit focusing from spot to flood with a ratio of 11:1, the fixture is said to approach the intensity range of a standard 2K Fresnel unit. Using a 1000-W (3200 K) tungsten-halogen "quartz" single-ended frosted lamp, the unit operates directly from 120-V, ac or dc, without boosting to produce 50 to 560 fc at 20 ft from flood to spot focus positions. The Super-Beam "1000" is available in two models, the LQF10-50 for motion picture and the LQF10-50/TV for television. The motion-picture version weighs 10½ lb and can be stand-mounted or supported by standard grip equipment. The focusing is done by means of rotating a plastic knob on the bottom of the housing. The TV version weighs 11 lb and is supplied with a yoke incorporating a C clamp for mounting. Price of each is \$125.

The Husky Dolly, designed to accommodate the Husky Tripod at any extension, has been announced by Quick-Set Inc., 8121 Central Park Ave., Skokie, Ill. 60078. The dolly has swivel wheels, measuring 2 × 1½ in., which are provided

PRINT QUALITY IS WHAT THE AUDIENCE SEES AND HEARS



For both image and sound quality choose a reliable Agfa-Gevaert print film. Gevacolor Positive film provides brilliant color copies with high saturation. Positive Fine Grain film gives black-and-white release prints with excellent gradation and perfect sound reproduction. Gevaprint film for TV is specially designed for printing copies with ideal contrast and finest grain for TV transmission. Conventional positive film processing. Duplicating Reversal 16 mm film is a low speed film of high resolving power designed for printing from reversal originals or dupe positive films.

Apply for detailed information to GEVAERT-AGFA N.V., ANTWERP-BELGIUM

In the U.S.A. : AGFA-GEVAERT, Inc. 275 North Street, Teeterboro, New Jersey

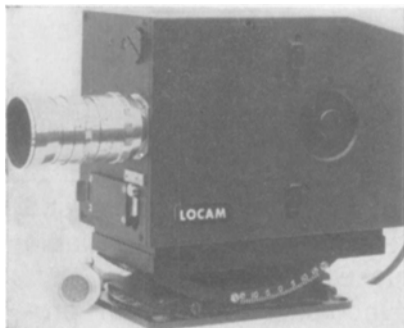
In Canada : Photo Importing Agencies, Ltd. 29 Gurney Cressent, Toronto, Ontario, Canada

MOTION PICTURE FILMS



AGFA-GEVAERT

with wheel locks. The caster circle is 35 in. in diameter. The dolly weighs 3 lb and has a capacity of 25 lb. It folds compactly for convenience in transporting when used on location. Its folded size is 5 × 5½ × 18½ in. It is priced at \$26.



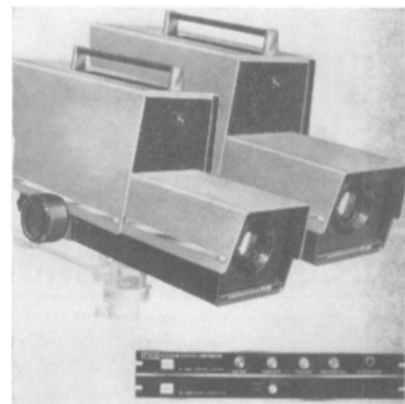
Locam Model 162-2, a 16mm intermittent pin-registered camera, has been announced by Red Lake Laboratories Inc., 2971 Corvin Dr., Kifer Industrial Park, Santa Clara, Calif. 95051. The camera has a speed range of up to 200 pictures/s with a 200-ft film capacity. Designed to meet aerospace environmental requirements up to 60,000 ft, the camera measures 4 × 8 × 5½ in. and weighs 8 lb. It operates on 28-V dc with a running current of 3 A. A film is transported by a dynamically balanced two-claw intermittent movement with double-pin registration to provide continuous control of the film while it is in the gate. Frame-to-frame registration

is held within ±0.0002. Features include the accommodation of any standard 16mm C-mount lens, and automatic film-runout cutoff switch, a film-footage indicator, and a modular design of interchangeable sub-assemblies and prelubricated mechanisms. The camera is priced at \$2,800.

A tracking binocular with 12× magnification for use on mobile tracking telescopes and missile tracking cameras and for similar applications has been announced by Photo-Sonics, Inc., 820 S. Mariposa St., Burbank, Calif. The instrument, designed for both daytime and night use, is a prismatic erecting type, producing an image that is both upright and correct left-to-right. The observer's viewing angle is 45° to the line of sight and the apparent field-of-view is 60°. The interocular distance is adjustable from 58mm to 74mm, and the viewing oculars can be individually focused. Resolving power of the binocular is said to be within 3" of arc. Air-glass surfaces of lenses are hard-coated. A reticle with intensity control is also provided. The instrument weighs less than 35 lb and is painted to reflect a minimum of 60% of visible and infrared radiation. It can be mounted on various types of tracking equipments.

Improved versions of the 300mm Kilfitt Pan-Tele-Kilars have been announced by Zoomar, Inc., Glen Cove, N.Y. 11542. Designated Pano and Panso, the new lenses are adaptable to 35mm and 2¼ × 2¼ SLR, and 16mm "C" mount cameras. Features

include close focusing ranges of 3½ for the Panso and 5½ for the Pano. Both of the telephoto lenses have a red index for infrared photography, preset diaphragm, built-in sunshade and filter holder with slot for 2-in. by 2-in. gelatin filter. The Panso is priced at \$535 and the Pano at \$430.



Two new TV viewfinder cameras have been announced by Television Utilities Corp., 10-11 50th Ave., Long Island City, N.Y. 11101. Both cameras feature built-in zoom lenses, 5-in. viewfinders, 600-line resolution and modular construction. Each camera weighs less than 23 lb. The model VF1000 camera is self-contained with internally generated random interlace sync and is priced at \$1,795. Model VF1500 offers a choice of four types of sync, including externally driven EIA RS-170, and has remote control of beam, target, focus and pedestal. It is priced at \$1,995. A companion integrated circuit EIA sync generator is available at a price of \$975.



The New Magnificent Seven

For better shooting than ever... Mitchell's exclusive new Kowa-Cine Prominar team — **seven highest-quality lenses** specifically made for the Mitchell BNC, BNC-REFLEX, S35R, and Mark II 35mm cameras.

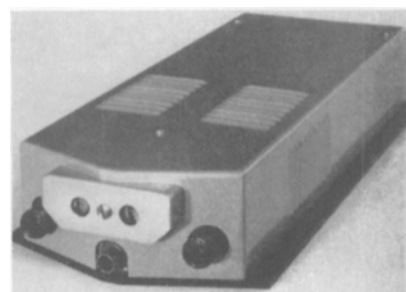
Rugged, lightweight, and **optically and mechanically unchallenged.**

Features: color-corrected, retrofocus lenses... ultra-high resolution... **markings facing camera's left side** for speed and convenience of setting changes... built-in sunshades and filter retainers... and priced below equivalent professional lenses. Sizes: 20mm T2.6, 25mm T2.3, 32mm T2.3, 40mm T2.3, 50mm T2.3, 75mm T2.3, and 100mm T2.6.

Available now, separately or in sets — Mitchell-quality lenses for Mitchell cameras. Contact us for more information.

 **Mitchell**

Mitchell Camera Corp. / 666 W. Harvard St., Glendale, Calif. 91204 / Tel: (213) 245-1085
Vinten Mitchell Ltd. / Bury St. Edmunds / Suffolk, England / Tel: Bury St. Edmunds 2121
Nagase & Company, Ltd. / 2-Chome Kobunacho Nihonbashi, Tokyo, Japan / Tel: (662) 6211



New television lenses introduced by Ets. Pierre Angenieux, St. Heand, Loire, France, include an outside broadcast zoom lens with a magnification of 18:1, a 10:1 zoom lens which has a near-focusing distance of 16 in. and another 10:1 lens with a wide angle. The 18:1 lens is available in two versions, image orthicon, 55:-1000 mm f/4, and Plumbicon, 27.5:500 mm f/2.2 giving a horizontal angle view of 34° at wide angle and 1.9° at narrow angle. This lens can be fitted to any existing type of television camera.

A related development, the Servopak unitary servo drive system, designed for use with every known television zoom lens, has been introduced by Evershed Power-Optics Ltd., Brentford, Middlesex, England, sole representatives of Pierre Angenieux in the United Kingdom. The Servopak is designed to provide operational flexibility by allowing any standard lens to be changed from mechanical to servo control or vice versa in a few minutes

PROFESSIONAL SERVICES

MAGNETIC SOUND STRIPING

16mm Super-8mm 8mm

- Precision Liquid Dispersion
- Processed or Raw Stock Film
- Quality Guaranteed—Fast Service

AERCO

Box 171 Pennsauken, N.J.

HERMAN GALLI CAMERA SERVICE

formerly Bryhn Camera Service

Expert repair and service on all professional movie and still cameras and accessories
ARRIFLEX specialist, modifications, custom design

6804 Melrose Ave., Los Angeles, Calif. 90038
Phone 213-931-4111

M. RETTINGER

Consultant on Acoustics

Analysis, Room Design, Noise Reduction

5007 Haskell Ave., Encino, Calif.
Tel: 213-784-3985

Professional Motion Picture Equipment RENTALS * SALES * SERVICE

Phone or write for latest
Rental & Sales Catalogs

Birns & Sawyer Cine Equipment Co., Inc.
6424 Santa Monica Blvd.,
Hollywood, Calif. 90038
(213) HO 4-5166

RENT

SEND FOR
CATALOG

16 mm, 35mm, 70mm
Motion Picture Cameras
High Speed Cameras
Special Cameras
Lenses
Lights
Processing Equipment
Editing Equipment

GORDON ENTERPRISES

5362 N. Cahuenga, North Hollywood, Calif.

RESEARCH, DESIGN AND DEVELOPMENT OF EQUIPMENT FOR THE PHOTO INDUSTRY

Complete Line of Animation, Filmstrip and
Special Effects Equipment

RICHMARK CAMERA SERVICE, INC.
516 Timpson Pl. Bronx, N.Y. 10455
LU 5-0730 LU 5-5995

MUSIC FOR EVERY MOOD

Complete background music library
cleared for RADIO-TV-MOTION PICTURES
Quality recordings by full-sized orchestras
Complete selection of sound-effects records
also available

WRITE FOR CLEARANCE APPLICATION
FORMS AND CATALOGS
THE CAMERA MART, INC.
1845 Broadway, New York 23

FRANK P. HERRNFELD

Engineering Consultant

(Formerly with
Frank Herrnfeld Engineering Corp.)

P.O. Box 34802
Los Angeles, California 90034
(213) 870-2867

FILM PRODUCTION EQUIP. RENT • LEASE • SERVICE

World's largest source of equipment for
producing, processing, recording, editing, etc.

S.O.S. PHOTO-CINE-OPTICS, Inc.
New York City: 387 Park Ave. S., 212/MU 9-9150
N. Hollywood, Calif.: 10635 Burbank Blvd., 877-5328

WORN FILM RESTORED

Now—no need to throw away damaged, stained
or worn film! Send it to CAPITAL for speedy
restoration to original, never-used quality! Our
new "filmsaver" machine will completely restore
your damaged originals of negatives and prints—
protect and prolong the life of new prints.
Write or phone today:

CAPITAL FILM SERVICES, INC.
1001 Terminal Road
Lansing, Michigan 48906 (517) 487-3735

REELS • CANS • FIBER CASES

MOTION PICTURE ENTERPRISES

Tarrytown, N.Y. 10592
N.Y.C. Tel: 212 CI 5-0970

Quality and Service for the 16MM Movie
Producer. Daily Processing of all
Ektachrome Films*

*"Licensed by Eastman Kodak"
"Triad" Color Printing—Scene-to-Scene
Color Correction

Send for Price List
SOUTHWEST FILM LAB., INC.
3024 Ft. Worth Ave., Dallas, Texas 75211
A/C 214 FE 1-8347

ZOOM LENS REPAIRS

Expert repairs and servicing
on all types of Zoom lenses.
18 years experience. Fast service.

CENTURY PRECISION OPTICS
10659 Burbank Blvd., No. Hollywood, Calif.
(213) 766-3715

TUFF COAT

Cleans, kills static, lubricates and invisibly coats
and protects all types of film against scratches
and abrasions. SAFE, easy to use. NO carbon
tet. Special type available for magstripe and
video tape. Write for brochure "S"

NICHOLSON PRODUCTS COMPANY
3403 Cahuenga Blvd. Los Angeles 28, Calif.

STANCIL-HOFFMAN CORP.

- MAGNETIC FILM RECORDERS, ST, 18,
17½ & 35MM, All Plug-In Transistor Elec-
tronics
 - TAPE ¼" FOR MONO, STEREO & SYNC
PULSE R70
 - BROADCAST LOGGING, 24 HOURS
CONTINUOUS 7" REELS UP TO 4 CHAN-
NELS
- 821 N. Highland Ave., Hollywood, Calif. 90038

CRITERION

FILM LABORATORIES, INC.

Complete laboratory facilities for 16
& 35mm black-and-white and color
33 West 60th St., New York 23, N.Y.
Phone: COLUMBUS 5-2180

SAVE
25-50%
ON
PRINT
COSTS

Users of Permafilm Protection and
Perma-New Scratch Removal show
savings ranging from 25% to 50%
and more by lengthening the life of
their prints. A money-back test will
convince you.

PERMAFILM INCORPORATED
257 Park Ave. S., N.Y. 10010
(212) 674-5700
PERMAFILM INC. OF CALIFORNIA
814 N. Cole Ave., Hollywood, Cal. 90038

PROJECTION SCREENS

Professional, Seamless, Front & Rear Protection
Consulting service custom sizes for theatres,
TV & MP studios, viewing rooms. Rigid
rear projection for plotting and display. New
"Porta-Pro" portable.

STEWART FILMSCREEN CORP.
Formerly Stewart-Trans-Lux Corp.
1161 W. Sepulveda, Torrance, Calif. 90503
Phone 326-1422 (213)

ELLIS W. D'ARCY & ASSOCIATES

Consulting and Development Engineers

8mm Magnetic Sound Printers
Motion-Picture Projection

Magnetic Recording and Reproduction

Box 1103, Ogden Dunes, Portage, Ind. 46368
Phone: (219) 895-2585

MONTREAL — CANADA

Color 16mm Ektachrome EF, ECO

Processing & Printing

Complete 35mm & 16mm B & W Lab Facilities
Optical Transfers Editing

QUEBEC FILM LABS

265 Vitre St. West, Montreal, Que., (514) 861-5483

SOUND STUDIO EQUIPMENT

Selsyn distributors, fluid starting
direct drive on run. From \$1,800.00
Loop racks—Relay rack mount. \$175.00
"Fishpole" mike booms telescoping 4'-8'
6"-12', 8'-16"—\$35.00-\$40.00

Don Walton, Studio Electronics Co. of Chicago
5415 N. Clark St., Chicago, Ill. 60640
(312) 561-0022

DELONICS CORPORATION

electronic • chemical • mechanical
ENGINEERING CONSULTANTS

Research, Design and Development

32 Union Square, New York, N.Y. 10003
(212) 982-2552

DAMAGED FILM HOSPITAL

Why Junk Damaged, Scratched, Brittle,
Stained, "Rainy" Worn Film?
"THE FILM DOCTORS" Can Restore It To
Original Screening Quality With Amazing
R & R Treatments.

RAPIDWELD: restores damaged originals of
negatives and prints

RAPIDTREAT: completely protects and pro-
longs the life of new prints
Rapid Film Technique, Inc., 37-02 27 St.,
Long Island City 1, N.Y. STilwell 6-4600

AURICON & K-100 CONVERSIONS

to 400 & 1200 ft.

Filter slot Auricons & Films
Transistor amplifiers, processors, etc.

Write for details

GORDON YODER

Professional Cine Products
2959 Ladybird Lane, Dallas, Texas 75220

LaVezzi

high
precision
drive
sprockets

for

Tapes,
Film,
Charts

Whether your tapes, charts or films have round or rectangular perforations, the ideal drive units are LaVezzi sprockets — Precision parts with every tooth perfectly formed, exactly sized and wholly free of burrs. Inquiries, quote requests invited. Stock items or made to your specs.

BROCHURE SENT
ON REQUEST

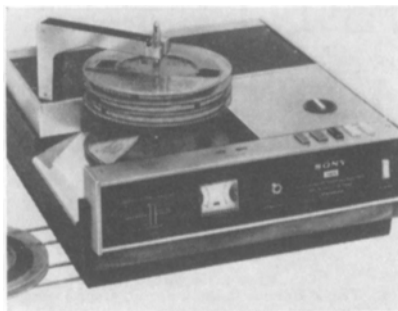
SPROCKET SPECIALISTS SINCE 1908

LaVezzi

MACHINE WORKS

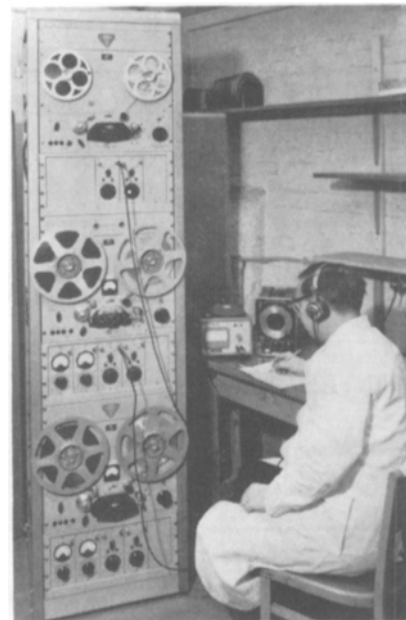
4635 W. LAKE STREET
CHICAGO 44, ILLINOIS
AREA 312-378-1636

on the camera. Features include unit construction, suitability for any zoom lens with conventional mechanical outlets, built-in electrical limiting to prevent lens over-travel and the ease with which it can be set up and operated. It is designed as a complete package containing all power supplies, ac amplifiers, control circuitry and high-powered ac servo motor/generators with integral gear boxes and resetting potentiometers. The drive output is from splined gears which are coupled through specially silenced cables to the mechanical drive outlets of any standard zoom lens.



Sony Model 760, a tape recorder with an automatic reel-changing mechanism that allows up to five reels of prerecorded tape to be stacked on a spindle and played in automatic sequence in the same manner as a record changer, has been announced by Superscope, Inc., 8150 Vineland Ave., Sun Valley, Calif. 91352, exclusive distributor in the United States of Sony tape recorders, magnetic tape, microphones and accessories. The unit is entirely automatic and will play both sides of five prerecorded tape reels unattended. The size of the reels can vary from 3 to 7 in. in diameter and may be intermixed. Features include solenoid pushbutton controls for manual operation. In automatic operation a button is pressed and the first reel released from the spindle. The tape is automatically threaded and it reverses automatically after the first side of a 4-track tape has been played. It can operate at three speeds, $7\frac{1}{2}$, $3\frac{3}{4}$ and $1\frac{1}{2}$ in./s. Model 760 will be available in two versions, one for play back only and the other for recording and playback. Both models will be available in the fall of 1968. Model 760 will be priced at about \$700.

The Wollensak VTR 150 helical video recorder is now available on a nationwide basis following a year of marketing tests, it was announced by 3M Company, 2501 Hudson Rd., St. Paul, Minn. 55101. As a result of the tests improvements have been incorporated in the machine, the announcement stated. Features include simplicity of operation, long video head life, interchangeability of tapes and recording economy. Operation of the unit is similar to that of a sound recorder. Tape threading is said to be positive and fast. Operating controls are clearly labeled. The VTR 150 is available as a portable recorder-playback device or mounted in a mobile console complete with camera, tripod monitor/receiver, microphone, patch cords and one reel of "Scotch" brand helical video tape. The recorder only is priced at \$1,495, and the mobile console package is priced at \$2,995.



Three tape duplicating systems (Series E Mark 5), produced by Leever-Rich Equipment Ltd., 319 Trinity Rd., Wandsworth, London, S.W. 18, England, have been installed in the Linguistics Department of the University of Stockholm, Sweden. The transports are housed in a 6-ft cabinet rack complete with plug-in record and replay amplifier modules. The top unit is a master reproducer and the two lower units act as slave recorders, with the facility for individual operation as master recorders if desired. When in use for copying, all three transports operate under the command of a master pushbutton control system. Copying may be carried out at single, double or quadruple speed and reduced speed copies can be obtained if desired. The equipment is convertible from twin-track to single-track operation by means of pre-aligned plug-on head-blocks and will accommodate reels up to $11\frac{1}{2}$ in. in diameter. The duplicator is said to produce up to 24 copy tapes per hour, each 600 ft in length. Prices for the copying machines range from £1,365 for single-channel, half- or full-track to £2,600 for dual-channel with replay facilities on the copying unit.

The Kinelocic Tape Winder designed to transfer magnetic tape from 10.5-in. or 14-in. NAB or IR reels to a second reel is a product of Kinelocic Corp., 29 S. Pasadena Ave., Pasadena, Calif. It is said to be especially useful in transferring reels wound at low tape tension to a special reel hub at high tension. A variety of special reel hubs of the type used on most data recorders can be accommodated. The constant-tension wind is said to be especially advantageous for data recorders subject to adverse environments. Designated Model KTW, the tape winder winds a flat tape pack, less than 5-mil layer-to-layer tape edge variation. A servo system provides a constant-tension wind of 4, 8, or 16 oz for the corresponding tape widths of 0.25, 0.5 or 1.0 in. Winding speed is about 50 in./s. An automatic control winds a preset length of tape. The tape winder is priced at \$3,570.