

color telecasting of league hockey games, based on an investigation and study made for the Canadian Broadcasting Corporation.

**Simultaneous transmission of two sound channels in television**, Saburo Yamane and Yukoh Fujii, *NHK Technical Research Laboratories, Serial No. 109*, 1-17, March, 1967.

The simultaneous transmission of two sound programs for television broadcasting may be employed in various services, such as the broadcasting service in a country using multilanguages, simultaneous broadcasting service of foreign films in the original and translated languages, and international program exchange service.

Although various methods are conceivable in order to embody the above-mentioned transmission system, a group of frequency-divided systems is considered to be most attractive. On this ground a series of experiments on this system were conducted, and it was revealed that FM<sub>M</sub>-FM and SSB<sub>BIL</sub>-FM systems are most suitable for these frequency-divided systems.

**Problems associated with color television**, C. B. B. Wood, *Phot. Jour.*, 107: 193-98, No. 6, June 1967.

Color television receivers have displays limited in brightness range, and which are used in high levels of ambient lighting, so that films made for optical projection appear lacking in shadow detail. A more suitable film for color television use should have

lower contrast in the light tones relative to the shadows.

Poor matching of the color sensitivity of telecine equipment with the film's dye transmissions, and unwanted absorptions of the dyes, lead to cross-modulation of the electrical signals, giving poor color saturation. A method of electronic correction to remove this cross-modulation is mentioned.—C.W.H.

**Wired television systems**, R. P. Gabriel, *Int. Broadcast Eng.*, No. 25, 413-420, Oct. 1966.

Their economics and details of systems for pay TV and audience measurement.

**Motion perception using oscilloscope display**, C. F. Hempstead, *IEEE Spectrum*, 3: 128-135, No. 9, Sept. 1966.

A new type of stimulus generator has been designed and built to investigate some of the properties of the eye-brain perceptual mechanism and how it operates to perceive and interpret motion. Several time constants of the eye-brain have been measured, and their relations to other known time constants have been interpreted. Some time constants are associated with the brain and others with the retina, but all appear to interact with each other and with time constants of comparable magnitude that may occur in practical visual display systems. The application of this information to the design of practical systems is discussed briefly.

## current literature



The Editors present for convenient reference a list of articles dealing with subjects cognate to motion-picture engineering published in a number of selected journals. Photostatic or microfilm copies of articles in magazines that are available may be obtained from The Library of Congress, Washington, D.C., or from the New York Public Library, New York, N.Y., at prevailing rates.

### American Cinematographer

vol. 47, no. 12, Dec. 1966

Meeting the Challenges of Underwater Cinematography (p. 822) *Christopher Swann*

vol. 48, no. 1, Jan. 1967

Ray Bradbury Speaks on "Film in The Space Age" (p. 34)

How Technology From the Moon Will Advance Photography on Earth (p. 48)

vol. 48, no. 2, Feb. 1967

Filming the Greatest Parade in the World (p. 102) *William E. Brusseau*

What You Should Know About 16mm Workprint Editing (p. 112)

Reviewed by the SMPTE Advisory Committee on Special Effects in Motion Pictures: Herbert Meyer, Chairman, Russell Brown, Thomas G. Fisher, Jack Froehlich, Max Hankins, Ub Iwerks, Ivan Martin, Bob Matthey, Frederic L. Ponedel, John Roche, J. Edward Stembridge, Edward Stones, Virgil Summers.

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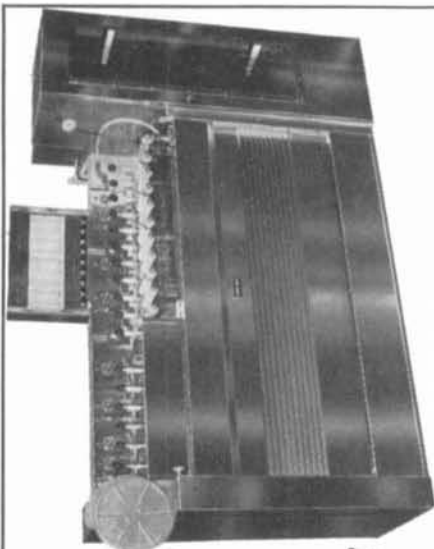
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**Inplant Color Film Processing at N.B.C. Television, Burbank** (p. 188) *Oscar Wick*

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**Anatomy of Colour** Dec. 1966  
**Lighting for Colour Television** (p. 27) *Robert Noble*  
**Opportunity Colour**, (p. 30) *Francis Harmar-Brown*  
**When Colour Comes—An Agency Prepares** (p. 33) *Jeremy Bullmore*

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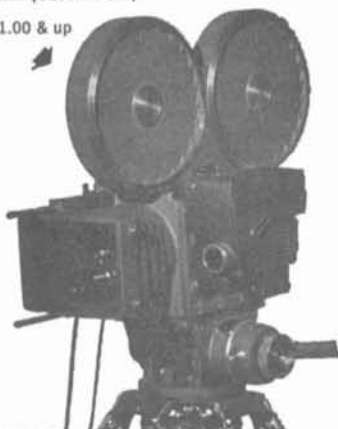


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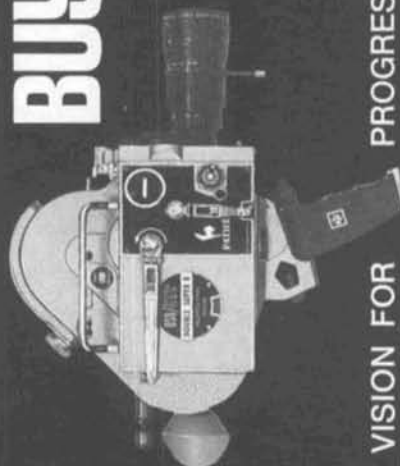
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A new automatic tracking mount that can be interfaced with infrared, television, radar and laser devices, has been announced by Photo-Sonics, Inc., 820 S. Mariposa St., Burbank, Calif. Called the Auto-Sextant, the machine can be manually controlled from a remote location or full tracking and focusing can be completely automatic. The camera platform is equipped with four surfaces for mounting cameras or control sensors, with additional provision for mounting a 70mm camera with a 50-in.  $f/5$  lens through the center of the mount. Equipment-carrying capacity is up to 1,500 lb with as much as 300 lb of unbalance. The elevation drive system uses an electronic servo control system to control two hydraulic elevation actuators which rotate the instrumentation platform. The actuators form an integral part of the rotating members and provide 600 ft-lb of torque each.

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The Tyler Mini-Mount, a new helicopter mount designed for "anywhere, everywhere" use has been announced by Tyler Camera Systems, 6335 Homewood Ave., Hollywood, Calif., manufacturers of 35mm/70mm helicopter mounts. The Mini-Mount, designed to have the same vibra-