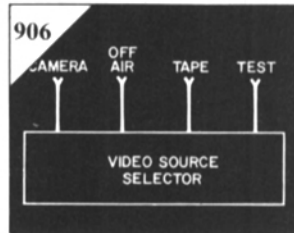


A Disc/Tape System for Time-Lapse Video

A. Yonekura

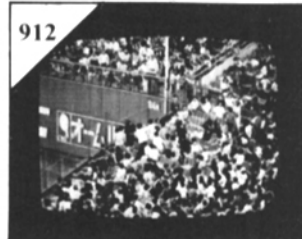
This system has recently been developed by NHK for time-lapse, or frame-by-frame video recording at desired intervals. Generally, frame-by-frame recording was applied in the field of film cameras as a technique to visualize long-period phenomena in a short time by means of time compression. Such phenomena include moving clouds, growing plants, opening flowers, cell division as observed through a microscope, moving people, and cars at a crossing.



Programmable Test-Bed for Composite Television Coding

R. C. Brainard, J. V. Scattaglia

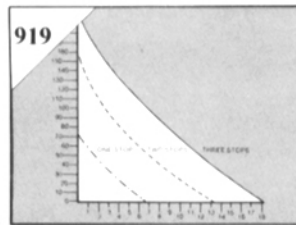
This paper describes a test-bed to study systems for processing composite color television for bandwidth compression. The intent of this paper is to describe the flexibility inherent in the test-bed and the wide range of possible demonstrations rather than specific design results. The test-bed is a research tool intended to demonstrate various new algorithms and new ways of using and connecting DPCM and adaptive DPCM systems.



Evaluation of Interfield-Intrafield Adaptive Prediction Coding

H. Murakami, Y. Hatori, H. Yamamoto

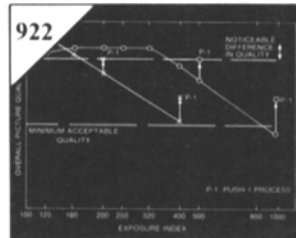
This paper presents subjective test results of a new high-efficiency coding method to the NTSC color TV signal, i.e., an interfield-intrafield adaptive prediction coding. In order to examine the performance of this adaptive prediction coding, subjective tests have been performed for the pictures obtained at transmission rates of from 15 Mbits/s to 32 Mbits/s, for comparison of picture quality with that of an intrafield prediction coding and with the pictures by cascaded coding of the adaptive prediction coding.



Eastman Ektachrome 7251

B. O. Black, W. G. Doody, R. J. Guerin, H. R. McNair

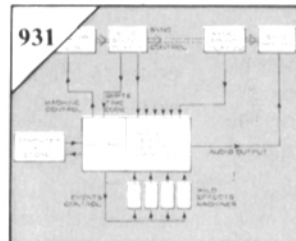
A new high-speed, color reversal, 16-mm camera film, compatible with either Process VNF-1 or Process RVNP, is now available. The film, Eastman Ektachrome* High Speed Daylight Film 7251, has been developed to help further satisfy the need of cinematographers, working in disciplines such as sports and motion analysis, for more photographic speed. It is designed for daylight exposure and will produce acceptable results under a variety of metal halide and xenon arc discharge lamps without filtration.



Eastman Color High-Speed Negative Film

G. L. Kennel, R. C. Sehlin, F. R. Reinking, S. W. Spakowsky, G. L. Whittier

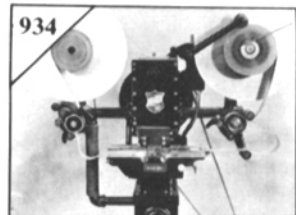
Eastman color high-speed negative film 5293/7293 has an exposure index of 250 and wide exposure latitude. This new film is designed to complement Eastman color negative film 5247, thus extending the creative freedom of the cinematographer in special applications where additional lighting is difficult, uneconomical, or undesirable.



An Advanced Computer-Assisted Sound-Mixing System

M. H. Jones, D. A. Tilsley, B. J. Roche

The Necam system provides a powerful tool in the dubbing theater for the rapid artistic building of film and video soundtracks. Attention to human engineering has resulted in the creation of a control system of great flexibility. The sound engineer can choose as little or as much computer assistance as he needs at any time, thus maximizing versatility in dubbing.



Cameras and Systems: A History of Contributions from B&H

L. J. Roberts

A historical and technological paper covering mainly the professional 35-mm gauge motion picture cameras designed and manufactured by the Bell & Howell Company of Chicago, Ill. Their importance to the standardization of the 35-mm film gauge, as well as their part in the Bell & Howell Standard 35-mm System, is also covered. Other major pieces of Bell & Howell 35-mm equipment are also mentioned as historical references.