

the practical problems of producing studio films for exhibition on screens as many *feet* in width and more, we feel sure that he would rapidly recognize the advantages of using both the two possible means of controlling the parallax range on film which we have analyzed.

We are afraid we do not follow Mr. Dewhurst's reference to our reliance on "the minor factor of convergence." It is true that the convergence does not affect the reciprocal-unit depth-range embraced by the camera, which in our nomenclature is purely a function of the *C* factor ( $M_f/c$ ); but its action is no less than to govern the position in theater space at which the image as a whole is reproduced. We do not think that this can be described as "minor."

Perhaps we should make it clear that Mr. Dewhurst misrepresents us in referring to our insistence on the necessity of avoiding distortion. On the contrary, we point out that distortion will inevitably be present, as a perfectly orthostereoscopic image can at best be seen only by a single spec-

tator. What is important is that the cameraman shall have means available for assessing the amount of distortion present so that it shall not be permitted to exceed acceptable limits; and for this purpose we develop formulae for arriving at the depth magnification and width magnification of the image, which immediately give the required information. We certainly agree that the distortion introduced should be as small as possible compatible with the provision of strain-free viewing. Our whole procedure — based on an accurately controlled relationship between a variable convergence and interocular separation — has been devised to achieve these ends.

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## 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. 34, Jan. 1953  
Set Lighting Innovations Mark the Photography of "5000 Fingers of Dr. T" (p. 16) *A. Rowan*  
Servo Mechanism for Remote Control of Mitchell BNC Lens and Finder (p. 18) *J. D. McCullough*  
vol. 34, Feb. 1953  
Stereo-cine Corporation is Newest 3-D Filming Organization (p. 60) *A. Rowan*  
"Fluid" Camera Gives Dramatic Emphasis to Cinematography (p. 63) *H. A. Lightman*  
A Built-in Exposure Calculator for Motion Picture Cameras (p. 68)  
What the Cine Photographer Should Know About Hyperfocal Distance (p. 70) *J. Walker*  
World's Largest 16mm Laboratory (p. 74)  
vol. 34, Mar. 1953  
Practical Filming Techniques for Three-Dimension and Wide-Screen Motion Pictures (p. 107) *C. G. Clarke*  
All Hollywood Studios Shooting 3-D Films (p. 108) *A. Gavin*  
CinemaScope—What it is; How it Works (p. 112)

- Producers Service's 3-D Camera (p. 116)  
Magnetic Sound for Victor S.O.F. Projectors (p. 118) *J. Forbes*

### Audio Engineering

- vol. 37, Jan. 1953  
A Flexible Single Recording and Re-recording Channel (p. 28) *H. Magargle*  
Handbook of Sound Reproduction (p. 30) *E. M. Villchur*  
vol. 37, Feb. 1953  
Real Theater Sound in a Small Package (p. 19) *T. R. Hughes*  
The Wide Range R-C Oscillator (p. 21) *L. S. Goodfriend*  
Audio Transformer Design (p. 26) *N. H. Crowhurst*  
Distortion in Voltage Amplifiers (p. 28) *W. B. Bernard*  
Handbook of Sound Reproduction (p. 30) *E. M. Villchur*  
vol. 37, Mar. 1953  
Theater Sound in a Small Package (p. 30) *T. R. Hughes*

- Handbook of Sound Reproduction, Chapter 10, Loudspeakers, Pt. I (p. 32) *E. M. Villchur*  
vol. 37, Apr. 1953
- Theater Sound in a Small Package (p. 24) *T. R. Hughes*
- An Auxiliary Mixer for TV Studios (p. 26) *G. A. Singer*
- Handbook of Sound Reproduction, Chapter 10, Pt. II (p. 29) *E. M. Villchur*
- Bild und Ton**  
vol. 5, Dec. 1952
- Übersichtstabelle über 16-mm-Bildprojektoren und-Bildtonanlagen (p. 376)
- Die Dosenentwicklung von Agfacolorfilmen (p. 385) *H. Franke*
- vol. 6, Jan. 1953
- Die Reibung des Films im Filmkanal von Kino-geräten (p. 4) *Frielinghaus*
- Der Sekundärelektronen-Vervielfacher in der Tonfilmtechnik (p. 9) *F. Eckart*
- Übersichtstabelle über 16-mm-Bildprojektoren und-Bildtonanlagen (p. 16)
- vol. 6, Feb. 1953
- Muss die Schärfe moderner Kleinbildobjektive verbessert werden? (p. 35) *H. Mehnert*
- Übersichtstabelle über 16-mm-Bildprojektoren und-Bildtonanlagen (p. 48)
- British Kinematography**  
vol. 21, Dec. 1952
- Separation Negatives and Positives for Colour Films (p. 144) *G. W. Ashton and P. Jenkins*
- vol. 22, Jan. 1953
- Standardization of Sound Quality on 16mm Release Copies (p. 4) *N. Leever*
- The B.B.C. Television Newsreel (p. 11) *P. H. Dorté*
- vol. 22, Feb. 1953
- Review of Technical Developments in 1952 (p. 34)
- Electrical Communication**  
vol. 29, Dec. 1952
- High-Gain Loop Antenna for Television Broadcasting (p. 268) *A. G. Kandoian, R. A. Felsenheld and W. Sichak*
- Electronic Engineering**  
vol. 25, Mar. 1953
- Television Sound Reception. The Critical Capacitance Coupling System (p. 114) *S. L. Fife*
- Ideal Kinema**  
vol. 18, Nov. 6, 1952
- Cinerama (p. 3) *L. Coulter*
- International Projectionist**  
vol. 28, Jan. 1953
- Natural Vision—Another Step in the Right Direction (p. 5) *M. Chamberlin*
- Some Technical Details of Natural Vision (p. 6) 1952: A Wonder Year for Progress (p. 9) *L. Chadbourne*
- Color Television Simplified by New Paramount Tube (p. 14)
- Types of Theatre Sound Reproducers, Pt. I, The Sound-on-Disk Reproducer (p. 16) *R. A. Mitchell*
- vol. 28, Feb. 1953
- Three-D Projection: Progress Report (p. 7) *M. Chamberlin*
- Introducing "Modulation" (p. 14) *J. Behlke*
- Types of Theatre Sound Reproducers, Pt. II, The Variable Reluctance Pickup (p. 17) *R. A. Mitchell*
- vol. 28, Mar. 1953
- Types of Theatre Sound Reproducers, Pt. III, The Sound-on-Film Reproducer (p. 5) *R. A. Mitchell*
- The Film-Cooling Problem (p. 10) *F. C. Matthews*
- 3-D Projection Requisites: Motion Picture Research Council (p. 12)
- These "Curved" Screens (p. 16)
- Kino-Technik**  
no. 1, Jan. 1953
- Über das Prinzip der Fernseh-Bildaufnahmeröhren (p. 12)
- Theorie und Praxis der Fernseh-Bildgestaltung (p. 14)
- Schmalfilm-Projektoren (p. 18) *H. Weise*
- Störungen bei der Vorführung von Tonfilmen (p. 19) *K. Braune and H. Tümmel*
- Der Tonfilmverstärker Dominar (p. 20) *M. F. Riedel*
- 8-mm-Kameras auf dem deutschen Photomarkt (p. 23)
- Motion Picture Herald**  
vol. 190, Jan. 10, 1953  
(Better Theatres Section)
- A Greater Theatrical Medium in the Making (p. 10)
- vol. 190, Feb. 7, 1953  
(Better Theatres Section)
- How Faulty Sprocket Teeth Injure Film—Threaten Fire. (p. 45) *G. Gagliardi*
- Motion Picture Herald**  
vol. 190, Jan. 31, 1953
- Third Dimension and Its Cousins are Perched on Exhibition's Doorstep (p. 12) *G. Schutz*
- vol. 190, Feb. 7, 1953
- The Story of 3-D from 1613 to 1953, Pt. I (p. 16) *M. Quigley, Jr.*
- vol. 190, Feb. 21, 1953
- The Story of 3-D from 1613 to 1953, Pt. II (p. 14) *M. Quigley*
- vol. 190, no. 12, Mar. 21, 1953
- 20th-Fox Will Cast Its Lot With Cinemascope (p. 19) *W. R. Weaver*

### Philips Technical Review

vol. 14, Jan. 1953  
Magnetic Sound Recording Equipment (p. 181)  
*D. A. Snel*

### Photographic Engineering

vol. 3, no. 4, 1952  
Optical Attitude Recorder for the Aerobee Rocket (p.169) *G. Schweisinger*  
Some Current Image Converter Practice (p. 189)  
*R. F. Lawrence and K. Shaftan*  
Time Pulse Numbering System for 16mm Magazine Cameras (p. 207) *R. C. Byers*  
A Semi-Automatic Data Reduction Device (p. 210) *F. D. Mason*

### Proceedings of the I.R.E.

vol. 41, Mar. 1953  
Generation of NTSC Color Signals (p. 338) *J. F. Fisher*  
Standards on Television: Definitions of Color Terms, Pt. I, 1953 (p. 344)

vol. 41, Apr. 1953  
Standards on Sound Recording and Reproducing Methods of Measurement of Noise, 1953: I.R.E. Standards Committee (p. 508)  
Transfer Characteristics and Mu Factor of Picture Tubes (p. 528) *K. Schlesinger*

### Tele-Tech

vol. 12, Apr. 1953  
A New Multiplex System for Three-Dimensional Sound (p. 92) *A. J. Forman*

## Book Reviews

### The Handbook of TV and Film Technique

By Charles W. Curran. Published (1953) by Pellegrini and Cudahy, 41 E. 50 St., New York 22, and George J. McLeod, Ltd., Toronto, Canada. 120 pp. (incl. 21 pp. glossary and 2 pp. index). Numerous charts and illustrations.  $5\frac{1}{2} \times 8\frac{1}{8}$  in. Price \$3.00.

This is a complete revision in book form of a multilithed booklet entitled, "The Handbook of Motion Picture Technique for Business Men," published in July 1952. It contains not only a general review of the actual steps in the production of a motion picture for industrial or TV use, but also considerable information on costs. It will be useful to all producers in dealing with clients and especially to the smaller production organizations. Reproductions of actual story boards alongside prints of the final scene, pages from an actual shooting script, tables of cost data and an illustration of the American Television Society Recommended Standard Contract Form all give practical information for the producer. While personal prejudices of the author are reflected in a few places (as in the glossary definition of "kinescope"), the book is very generally free of these. This is one of the best books of its kind this reviewer has seen.—*Gordon A. Chambers*, Eastman Kodak Co., Rochester 4, N.Y.

### Proceedings of the National Electronics Conference, Vol. 8

Published (1952) by National Electronics Conference, 852 E. 83 St., Chicago 19. 835 pp. incl. numerous charts, diagrams and tables, + 13 pp. cumulative index.  $6\frac{1}{4} \times 9\frac{1}{4}$  in. Price \$5.00.

The current volume contains the text of 97 technical papers and luncheon speeches presented at the 1952 Conference. Subjects include: antennas, the assembly and measurement of components, audio, circuits, coding and recording techniques, computers, delay lines and HF test equipment, electronic instruments, engineering management, industrial measurements, magnetic amplifiers, memory tubes, radar, radio navigation, reliability of components and equipment, semiconductors, servomechanisms, television, transistors, UHF transmitter, and waveguide.

In comparison with the previous volume, which contained many titles marked "Abstract only," all but one of the papers in the present volume are complete. This, together with an increase in the number of papers presented, has resulted in a volume approximately 100 pages larger than its predecessor. Indexing and organization of the subject matter are essentially the same as in previous volumes. Typography is clear and illustrations are very legible. There are a few typographical errors, which must be pardoned