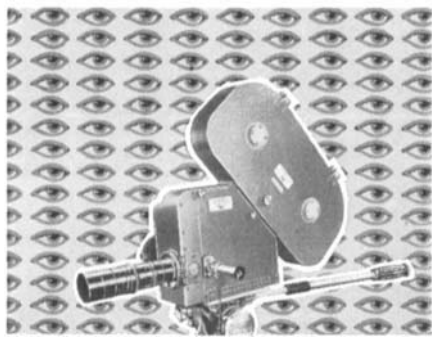


Engineer with 10,000 Eyes



WADDELL NOVA III 16mm HIGH-SPEED CAMERA

New features include simplified Timing Block and Film Chip Reducer.

It would take an engineer with 10,000 eyes to solve these problems:

- 1 A heavy paper machine malfunctions. In a trice it fills the room with an ocean of paper. Problem: Detect the fatigue and fracture within the structure of the machine.
- 2 An automatic printing and die-cutting machine picks up bad registrations, with resultant loss in material and man hours. Problem: Find the cause.
- 3 Chemical fluids forced under high pressure into nozzles suddenly take off in erratic directions. Problem: Check the pattern and correct direction.
- 4 A manufacturer wants visual proof of the loft and direction of his golf ball. How can he get it?
- 5 A missile manufacturer is faced with malfunction in the operation of a transonic sled driven by rockets. Another needs to check on the static firing of missiles. An aircraft manufacturer has problems incident to the take-off and landing of his planes.

If you are an engineer with a normal complement of just two eyes, you can solve these problems by the process of elimination, which often takes weeks and months, at a staggering cost in man hours.

Or . . . you can buy a new WADDELL 16mm High Speed Photo-Instrumentation Camera. Operating on a rotating prism as the means of optical compensation, the WADDELL travels at a far greater velocity than normal intermittent cameras—at 10,000 frames per second. The attachment of an 8mm prism gives you 20,000 frames per second.

Baffling engineering problems that take weeks or months to unravel, are solved in minutes by the WADDELL camera. The developed film gives you the evidence you're looking for.

The WADDELL has these unique features: Twin timing lights readily accessible for replacement without dismantling the camera. Film chip reducer. Timing lights can be used individually or collectively with no internal wiring changes. Provides three fixed apertures—Full, Half and Slit. Both $\frac{1}{4}$ x 20 and $\frac{3}{4}$ x 16 mounting threads on bottom of camera. Bore sight furnished. Improved positive locking lens mount. Six months unconditional guarantee on parts, labor and service.

Would you like to see the WADDELL demonstrated right in your plant? Write or telephone our Lou Girola. There's no obligation.

CAMERA EQUIPMENT CO., INC.

Subsidiary of CECO Industries

NEW YORK, N. Y.
315 West 43rd St. • JU 6-1420

HALEAH, FLORIDA
51 East 10th Ave. • TU 8-4604

HOLLYWOOD, CALIFORNIA
6510 Santa Monica Blvd. • HO 9-8321



Best Display Award Goes to Bell & Howell



The Bell & Howell Company's colorful and attractive four-booth display at the 92nd SMPTE Convention in Chicago last fall was selected by the Exhibit Award Committee to receive the Award for the best display, which has come to be a feature of the Convention Equipment Exhibits. The Award, which is in the form of a handsome engraved metal plaque commemorating the occasion, is presented in recognition of exhibitors' efforts in preparing effective and interesting displays. Novelty, imagination and effectiveness are the factors looked for in judging displays, and these were all featured to a high degree in the Bell & Howell presentation.

At a ceremony in Chicago on December 13, 1962, the Award plaque was presented by Geo. W. Colburn, Convention Vice-President-Elect, to James L. Wassell, Director of Marketing for Bell & Howell's Professional Equipment Division, which prepared the display.

The principal item shown was the new

Bell & Howell additive color printer, automated for rapid production and designed to make extremely short scene-to-scene color corrections at high speed. The 20th Century-Fox picture *Cleopatra* was printed on the 70mm printer of this new line, which are controlled by pre-punched, inch-wide program tape of the type used in accounting machines. Also included in the display were R-F cuers, soundheads, program tape checkers and duplicators, and a new line of Bell & Howell film splicers for 16mm film. Rotating color beams against the white backwall of the display were visually blended to simulate the additive color principle.

Those assisting at the booth, in addition to James L. Wassell, were Malcolm G. Townsley, Vice-President, Engineering, Bell & Howell, Dr. Hans Wohlrab, John Terry and Jerry Debish. Announcement that Bell & Howell had won the Award was made by President Servis at the Banquet during the Convention.

Education, Industry News

A course in Motion Picture Laboratory Practices and Procedures co-sponsored by the University of Southern California and the Society is offered for the Spring semester. Evening classes will be held each week beginning February 13 and continuing through June 5.

The course is one of a series on various phases of motion pictures, co-sponsored by the Society and USC. The series began in the Spring of 1956 with a course on Sound Recording for Motion Pictures. Courses have also been given in Video-Tape Editing and in Motion-Picture Production, Procedures and Services. The current course, in Laboratory Practices and Procedures, is designed to cover motion-picture laboratory work from its historical development through all of its technical phases. Also, a lecture on laboratory relations with the customer will be given. Textbooks assigned for use in the course are *Control Techniques in Film Processing* and *Elements of Color in Professional Motion Pictures*, both SMPTE publications. Lec-

turers for the course and their subjects are:

Sidney P. Solow, USC faculty and Vice-President and General Manager of Consolidated Film Industries — Sensitometry (two lectures) and Evolution of Motion-Picture Processing.

Wilbur Silvertooth, Nortronics Div. of Northrop Corp. — Fundamentals of Light and Optics.

Wilton R. Holm, E. I. du Pont de Nemours & Co. — Black-and-White and Color.

V. C. Shaner, Eastman Kodak Co. — Photographic Chemistry.

James Kaylor, M.G.M. Laboratories — Film Processing.

E. H. Reichard, Consolidated Film Industries — Film Printing.

Hal Scheib, Cinema Research — Duplicating Methods, Titles, Optical.

Jack P. Hall, General Film Laboratories — Chemical Systems.

Roderick T. Ryan, Eastman Kodak Co. — Photographic Materials for Processing Equipment.

Ired J. Scobey, General Film Laboratories — Mechanical and Electrical Control Equipment.