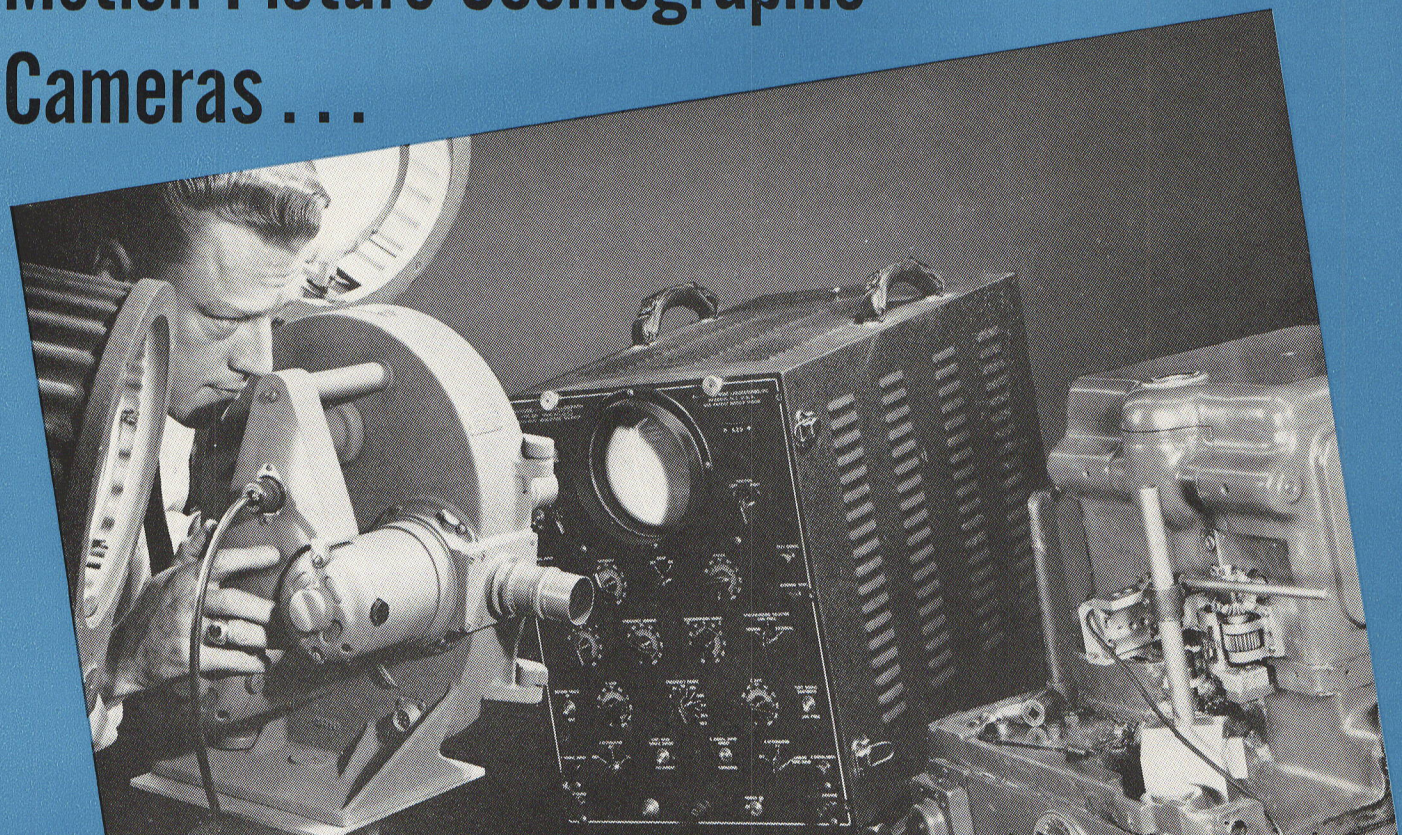
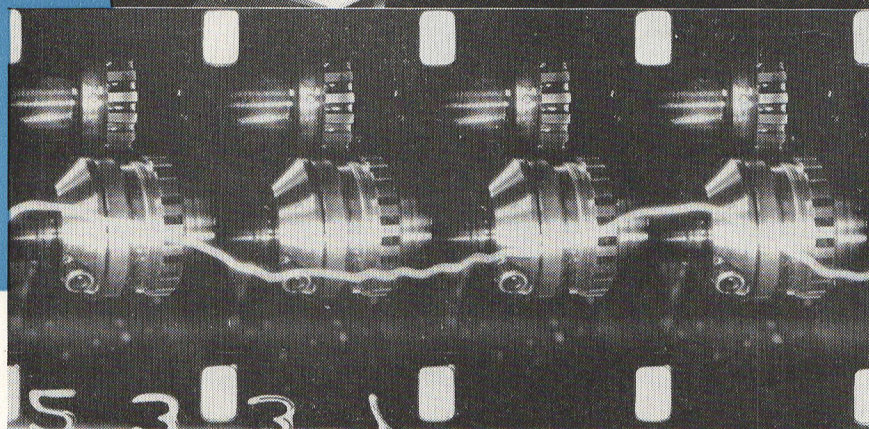


# WOLLENSAK *FASTAX* High-Speed Motion-Picture-Oscillographic Cameras . . .

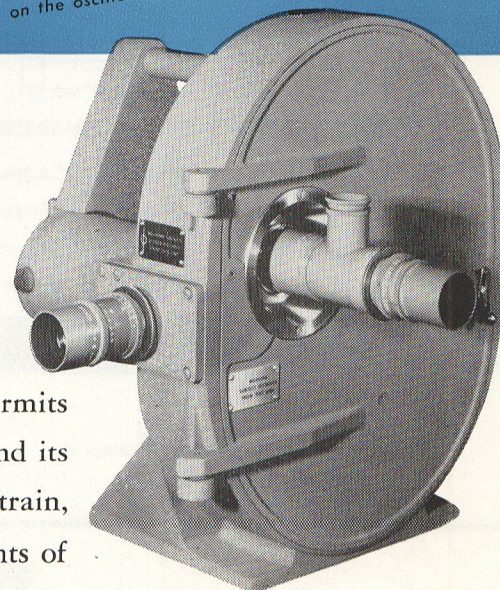


Recording photographically  $\frac{1}{2}$ " vertical stroke of a Fellows Gear Cutter. Horizontal movement of .005" is registered from a signal generated by a metrisite, amplified and placed on the oscilloscope screen. Cutter cycle: 700 per minute.



## Simultaneous Recording of Oscilloscopic Traces and Visual Phenomena

The optical and mechanical design of WF-14 and WF-15 cameras permits the simultaneous high-speed photography of a mechanical action and its related electrical characteristics. Non-electrical problems such as strain, vibration, pressure, acceleration by amplification of small increments of mechanical movement, can also be studied when photographed on the screen of a cathode-ray oscillograph.





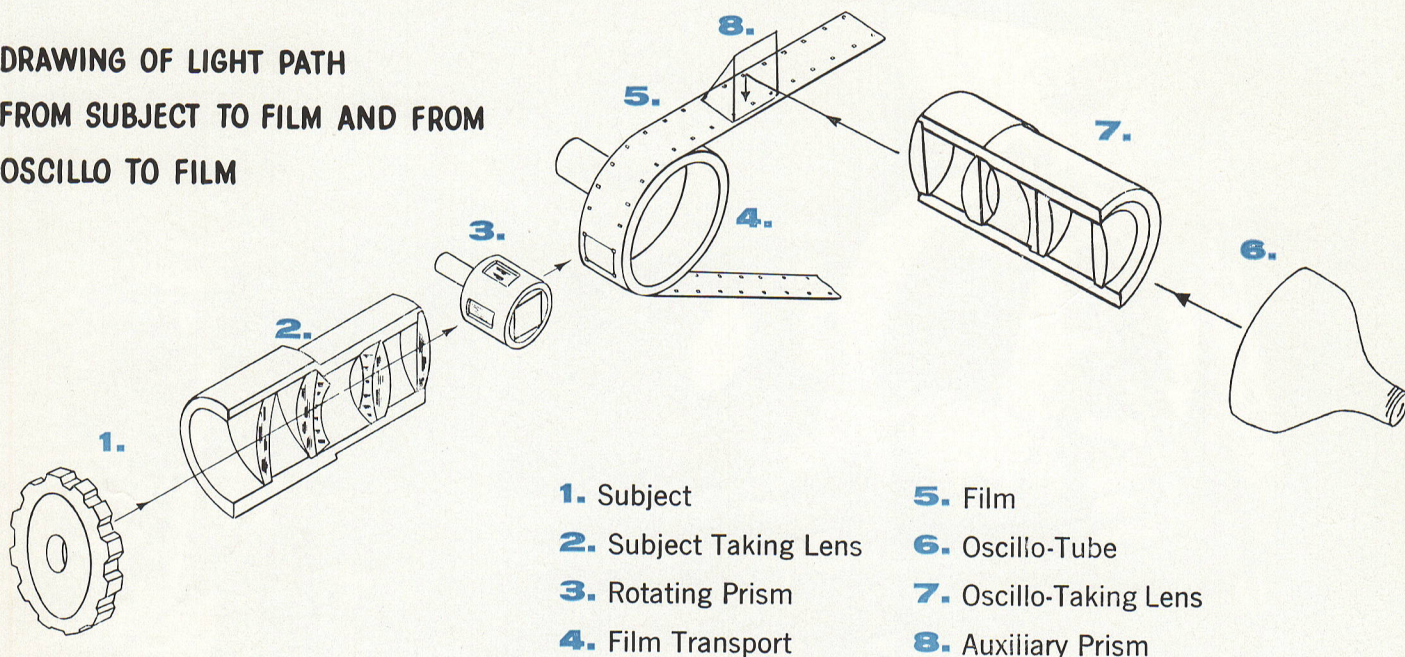
# HOW CAMERA WORKS

Dual photography is not difficult. The visual action is photographed in the usual manner through the front or "taking" lens. The side lens of the FASTAX High-Speed camera is focused on the oscilloscopic image. By means of an auxiliary prism, exposure of the oscillograph trace is continuously superimposed over the regular image on

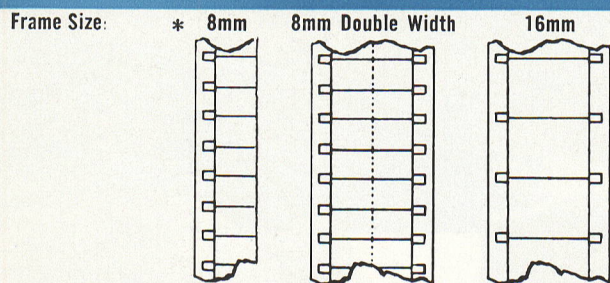
the emulsion side of the film, where it is available for study and measurement.

FASTAX High-Speed Motion Picture-Oscillographic cameras can be used either for making high-speed motion pictures, or [REDACTED] for recording oscillograph traces, or both.

## DRAWING OF LIGHT PATH FROM SUBJECT TO FILM AND FROM OSCILLO TO FILM



## TECHNICAL SPECIFICATIONS



### POWER REQUIREMENTS FOR MINIMUM-MAXIMUM SPEEDS:

Recommended Minimum	16	volts DC, 2.5 Amperes Approximately
Recommended Maximum	28	volts DC, 3.3 Amperes Approximately
Recommended Minimum	35	volts AC, 2.5 Amperes Approximately
Recommended Maximum	16	280 volts AC, <span style="background-color: black; color: black;">[REDACTED]</span> Amperes Approximately

Film Capacity: Up to 400 ft. . . . daylight spools

Camera Speeds: WF-15 [REDACTED] pictures per second  
WF-14 [REDACTED] pictures per second

Motors: 110 volt AC-DC

Lenses: Taking lens 50mm f/2 Fastax Raptar  
Oscillo lens 35mm f/2 Fastax Raptar  
Other focal length lenses are available on request

Viewfinder: Reflex-type, through the lens

Cut-off Switch: Automatic shut-off on completion of film transport

Timing Light: To record time interval on edge of film

\*(For motion picture only)

## PHYSICAL CHARACTERISTICS

Weight: [REDACTED] pounds  
Weight in shipping case: [REDACTED] pounds  
Size: [REDACTED]  
14" x 17" x 13"

Color: FASTAX Gray  
Lens Mount: Bayonet Type  
Tripod Mount: 3/8" x 16 NC

**WOLLENSAK**  
OPTICAL COMPANY

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