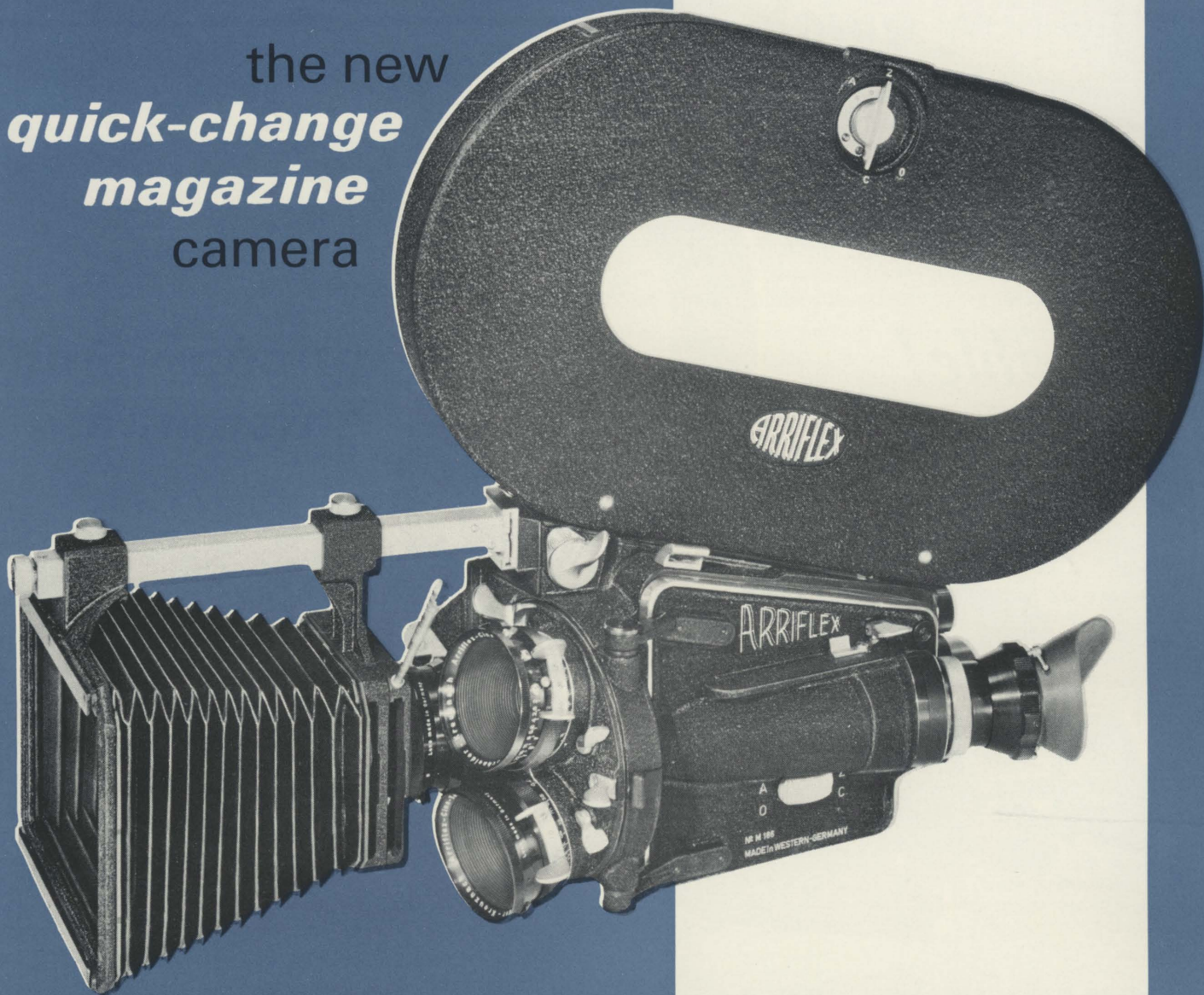


the new  
*quick-change*  
*magazine*  
camera



# ARRIFLEX® 16M



**ARRIFLEX**

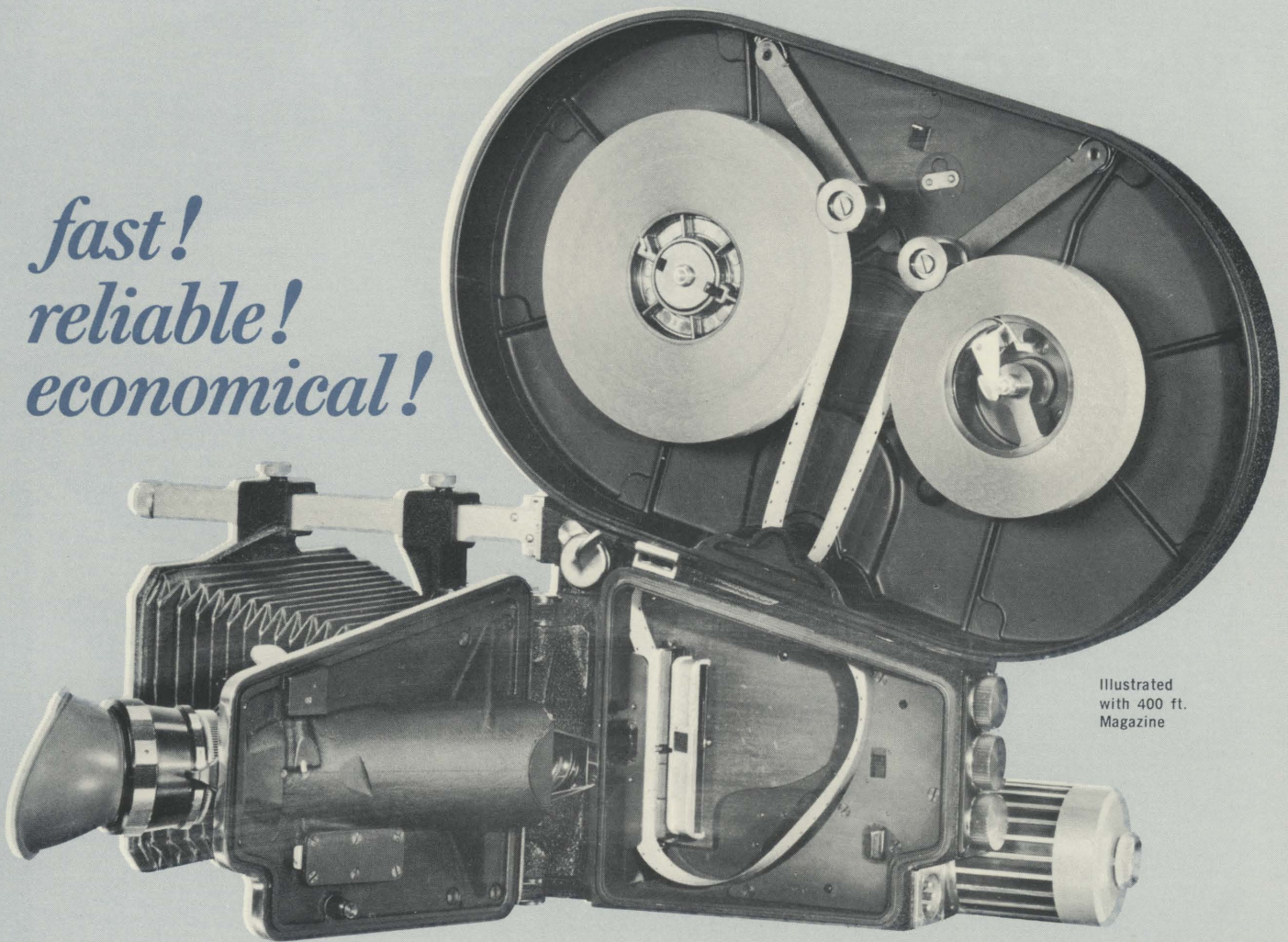
CORPORATION OF AMERICA

25-20 BROOKLYN-QUEENS EXPRESSWAY WEST  
WOODSIDE, N. Y. 11377

# ARRIFLEX® 16M

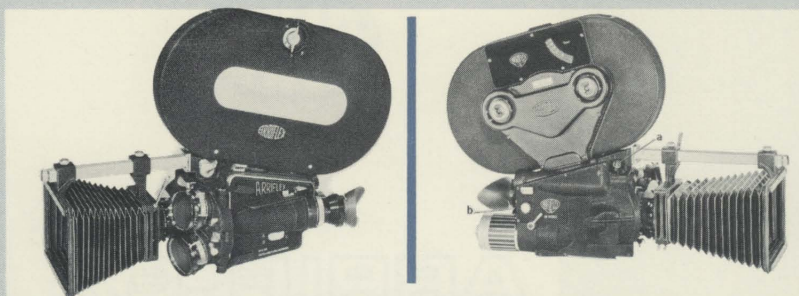
the new *quick-change magazine* camera

*fast!*  
*reliable!*  
*economical!*

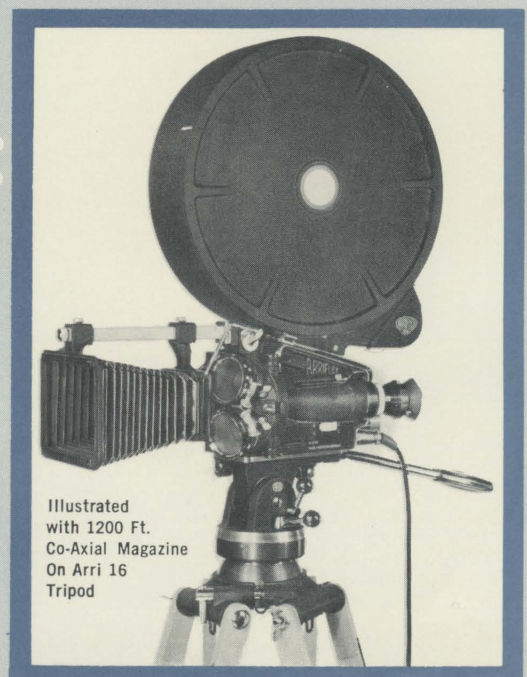


Illustrated  
with 400 ft.  
Magazine

**SIMPLIFIED FILM PATH  
LETS YOU CHANGE  
MAGAZINES IN SECONDS!**



Arriflex-16M with 400 ft. magazine showing (a and b) control lights for automatic electric start and scene mark system.



Illustrated  
with 1200 Ft.  
Co-Axial Magazine  
On Arri 16  
Tripod

# a born thoroughbred!

The new model Arriflex 16M can be relied upon to behave like a thoroughbred from your very first assignment because it incorporates the best features of its time-proven forebears, the famed Arriflex 16 and 35 professional motion picture cameras. The model 16M is certain to become another important tool for our cinematographer friends all over the world whose specific needs and suggestions motivated its production.

The Arriflex 16M combines the extreme compact lightweight portability of the standard Arriflex 16 with the larger film capacities and quick change, gear-driven magazine features of the Arriflex 35.

Designed from its inception to be used only with magazines, the model 16M is much more compact with attached magazines than the standard Arriflex 16 with the same capacity magazine. This has been accomplished by eliminating the internal 100 ft. film capacity within the camera head. Thus the head has become much smaller and permits the mounting of even the largest magazine (1200 ft. capacity) in a matter of seconds.

The literally millions-of-footage-proved mirror-shutter reflex system and registration pin movement of the famed Arriflex 16 have been retained as well as the 21° divergent 3 lens turret. And in addition, the new Arriflex 16M features a built-in 60 cycle sync generator and automatic electric start and scene marker for synchronous sound filming with all 1/4" tape recorders in common use today.

The new Arriflex 16M is ideally suited for location, studio and special assignments where compact portability, ruggedness, dependability, fast handling and extended filming runs are essential requirements.



## HERE'S WHY

Because the magazines for the new Arriflex 16M have feed and take-up sprockets **built-in**, time consuming and critical threading of film is conveniently done when loading the magazine. And in loading, a precise 39 frame **loop** is automatically formed outside the magazine.

## HERE'S HOW

To get set for filming, merely drop the loop inside the camera, secure the magazine via a quick-acting latch, place the loop into the film gate with registration pin retracted, and you're ready to roll! This simple fool-proof procedure takes only seconds! Attaching the magazine to the camera automatically connects camera and magazine drive mechanisms. No belts to change, no torque motors needed. As a consequence the magazines (except 1200 ft.) will automatically run forward or reverse.

## MOST IMPORTANT

Arriflex's reputation for precision and rugged reliability is not compromised in the new 16M model because **NO PART OF THE FILM GATE IS INCORPORATED IN THE MAGAZINES THEMSELVES!** The aperture plate, rear pressure plate, side guide rail — every component part essential to locating film precisely in the focal plane is protectively located within the camera head! Only this system meets the demand for fast operation **and** precision **and** reliability. In addition, the cost of magazines is thereby kept low. No small saving when outfitting with more than one.

## MAGAZINE SYSTEM

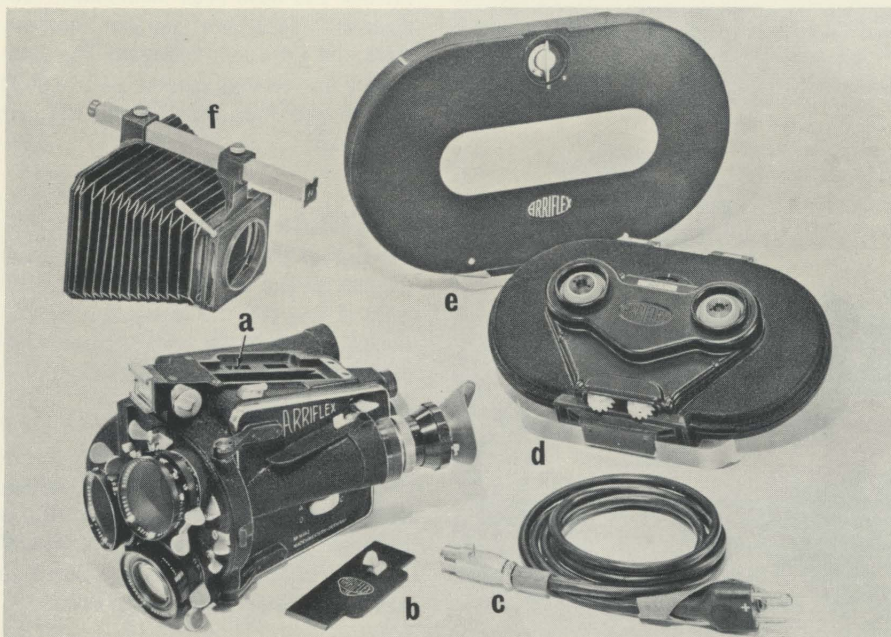
The new line of quick-change magazines for the Arriflex 16M now make available capacities up to 1200 ft. thereby greatly extending the filming capabilities of the model 16M. The quick change feature derives its advantage from the fact that feed and take-up sprockets are built-in. Eliminated too, is the time normally involved in aligning drive gears of camera and magazine; in the 16M the camera gear is spring loaded and automatically engages itself when magazine is locked into position and camera is switched on. The positive magazine to camera lock is solidly engineered—assurance against accidental opening.

Compact and lightweight in design, the 200 ft. and 400 ft. magazines are of the single compartment, displacement type and accept

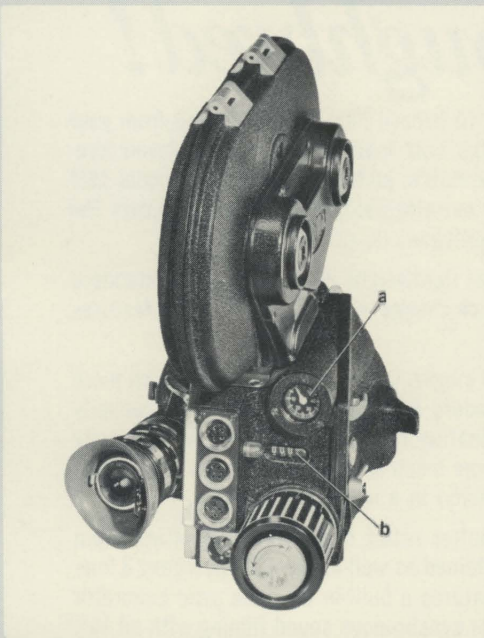
darkroom loads on plastic cores. Both magazines also accept 100 ft. and 200 ft. daylight spools, respectively. The 200 ft. and 400 ft. magazines are factory equipped for forward and backward operation and automatically change their internal drive mechanism when the camera is reversed.

The 1200 ft. magazine will prove particularly advantageous for our sports, industrial and military customers. Once completely loaded, mounting on the camera is as fast as the smaller capacity magazines.

(The 1200 ft. magazine is standardized for forward filming only but can be equipped for reverse running as well, on special request at extra charge.)



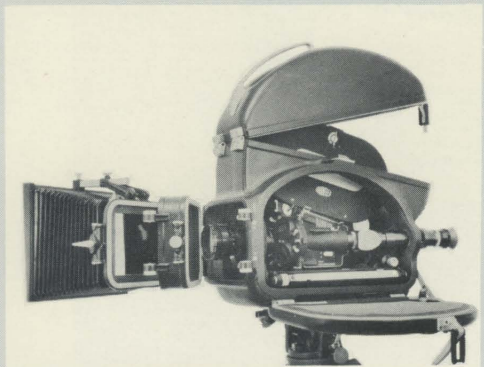
Arriflex 16-M Camera Head with a) Magazine Drive Gear, b) Magazine opening cover, c) Battery cable with self-locking Cannon plug, d) 200 ft. magazine with loop protector showing magazine drive gears, e) 400 ft. magazine cover side, f) Matte-box (same as for standard Arriflex-16S).



Arriflex-16M with 200 ft. magazine attached. Rear View. Note arrangements of all control instruments within easy view of operator. a) Tachometer, b) Footage and frame counter.



ARRI Universal Fiberglass Blimp; accepts Arriflex 16S or Arriflex 16M camera. Shown with 400 ft. magazine top and lightweight matte box.



ARRI Universal Fiberglass Blimp shown with conversion kit for zoom lens. Large Blimp doors provide easy accessibility to camera, magazines and lenses.

**BUILDING BLOCK CONSTRUCTION.** Another significant feature of the Arriflex 16M is its basic concept of building block construction. Not only magazines and lenses, but also matte-box, motors, viewing screens, finder eye-pieces, etc., are easily interchangeable. This permits the camera to be adapted instantly for many specialized applications in industrial, scientific, medical, documentary or television filming. This is all the more significant because, with the exception of the magazines, practically all of the above components are interchangeable between the Arriflex 16S and the Arriflex 16M.

**SYNCHRONOUS SOUND FILMING.** A 60 cycle signal generator with interlocked automatic slate system are built-in components of the Arriflex 16M. A small accessory oscillator (Cat. No. 339355) can be connected to the camera, permitting the recording of 1000 cycle start marks in recorders which do not have start mark oscillators. Moreover, the oscillator is used to record scene marks on film and tape, the sophisticated substitute for clap-sticks. Thus the 16M is fully equipped for synchronous sound recording with 1/4" tape recorders in common use.

The 16M accepts the 8 volt governor controlled DC motor as well as the regular synchronous motor from the 16S, so that with the latter, the conventional double system technique utilizing sprocketed magnetic film recorders is routine operating procedure.

**SOUND BLIMP.** A light-weight fiberglass blimp for location and sound stage work adds to the versatility of the 16M. A unique manufacturing process results in a blimp weight of only 28 pounds and a noise level of 27 db measured at a distance of 3 feet. The blimp features remote controls for follow-focus and diaphragm setting, a triangular scale bracket shows the calibrations for three lenses mounted on the camera turret. The rectangular front window enables the use of a new 8mm wide angle lens. The electrical system accommodates 8 volt DC and 42 volt AC, developed in the synchronous motor's power supply. An interchangeable top for the 1200 ft. magazine and conversion kits for using various types of zoom lenses are available.

**NEW IMPROVED FINDER SYSTEM.** The camera door with its sturdy double hinges and precise tolerances made it possible to transfer the finder prism from the interior of the camera to the camera door. Prism and field lens being separated, are now easily accessible for cleaning purposes.

**PROVEN FEATURES MAINTAINED.** Many well proven features of the Arriflex 16S have been maintained, such as mirror-shutter reflex system, 21° divergent 3-lens turret and film transport mechanism with registration pin movement and extra long film gate. The 16M can film forward or reverse by simply setting the forward-reverse switch on the camera drive motor. The magazine take-up and feed mechanisms will automatically respond (except 1200 ft. magazine).

**ELECTRICAL CONNECTIONS.** All electrical connections are located in the rear of the camera. The battery cable terminates in a 3-pole, self-locking Cannon plug. A 3-pole outlet wired in parallel to the camera's D.C. circuit provides 8 volt D.C. for auxiliary devices. The 60 cycle signal, previously mentioned, as well as the start and scene marker feature are available at the 5-pole center terminal. The top 4-pole outlet is blank and may be custom wired for special applications.

**OTHER FEATURES.** The tachometer and footage counter are also located in the rear, clearly arranged for easy viewing by the operating cameraman. The four digit counter records footage and frames simultaneously. A buckle switch automatically stops the camera in the event of a film jam and also at the termination of the roll.

988-2.5M-170AA

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