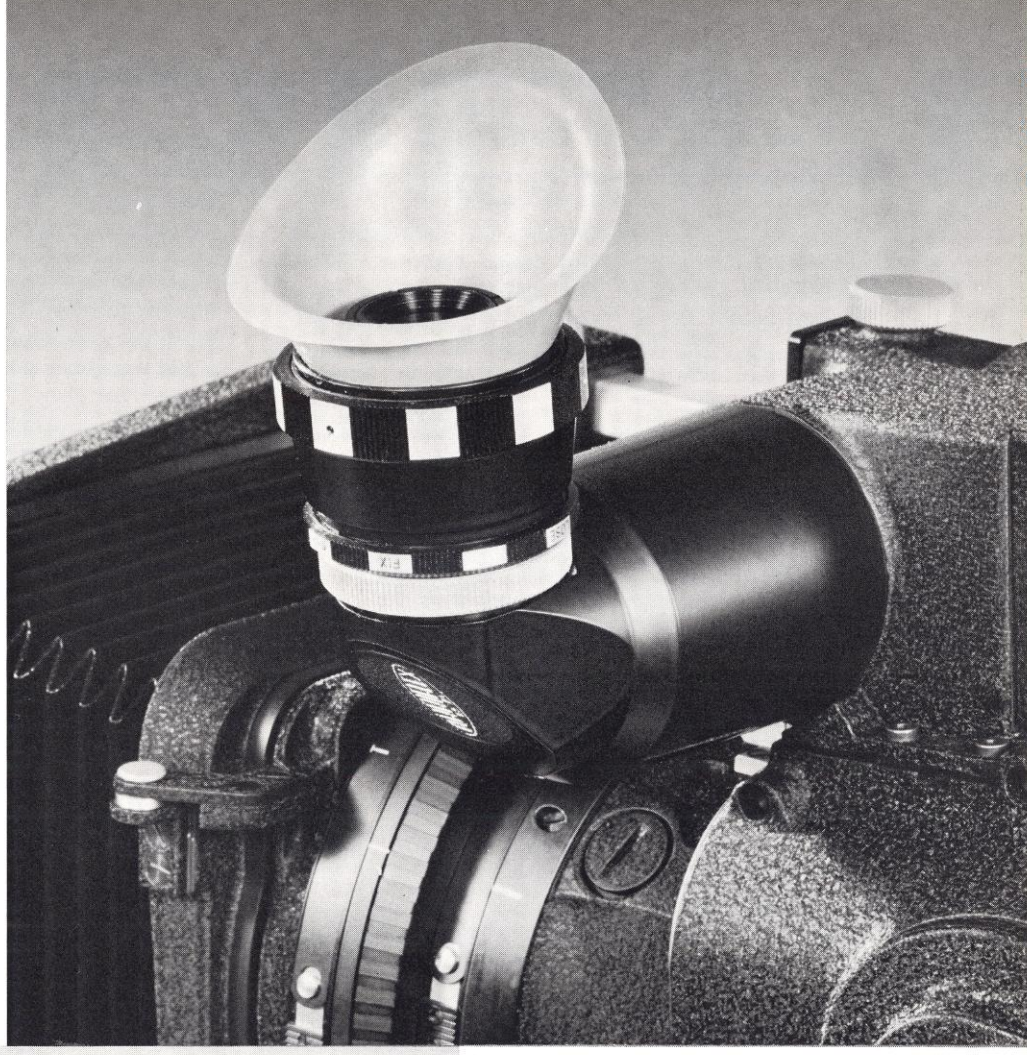


ARRIFLEX 35 BL

ARRI

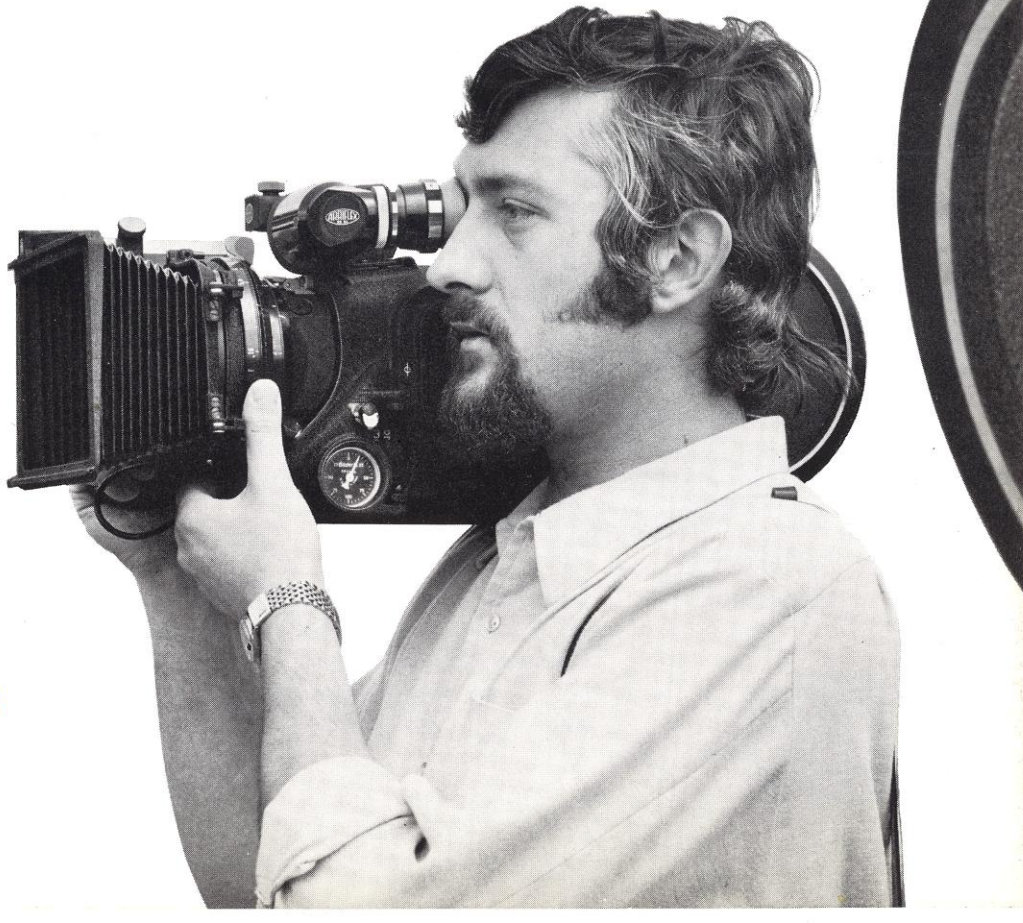


The 120° rotatable viewfinder assembly is helpful for special and difficult camera positions



Easily readable film supply indicator.
A selector switch for 24–25 fps 50–60 Hz.
The hand grip allows for easy carrying oft the camera

The claw mechanism can be pushed back for quick film threading and easy cleaning of the film gate



Low silhouette, lightweight and excellent balance for snug, comfortable shoulder-rested hand-held shooting

THE ARRIFLEX 35 BL CONCEPT

In today's film production, improved productivity is an urgent necessity. It is an important key to the future of film. At the same time, film styles and film aesthetics are undergoing major changes. Films reflect the viewpoint and life-styles of a new, younger audience. Among many changes, films are moving out from the studio and are dramatized against the authenticity of real locations. Camera viewpoint is becoming ever more subjective, free-moving and expressive. It is a new kind of filmmaking and it makes new, special demands on camera equipment.

Increased productivity — new, more expressive camera work — this is the environment in which the new ARRIFLEX 38 BL will make its first and greatest impact. But the influence of the 35 BL is greater still. It will prove to be as effective in traditional, multi-million dollar spectaculars, as in the fast-paced, mini-budgeted personal film. This is true because the 35 BL is not just another camera — but rather, part of the new, better way to make 35 mm films.

The ARRIFLEX 35 BL camera measures approximately 19″ x 10½″ x 9″. Weight, with motor und 400 foot magazine, is less than 25 lbs. The configuration of the camera is distinguished by its low silhouette, its double-compartment, coaxial magazine mounted at the back of the camera and weight distribution that makes for near perfect balance.

For hand-held work, the camera rests comfortably on the shoulder, with the eyepiece positioned exactly in front of the right eye. All controls are located for functional, easy operation. A substantial, flat base, and low center of gravity, adapt the 35 BL equally well for tripod mounting.

THE FILM MOVEMENT

From the start, the 35 BL was designed to meet the exacting technical requirements of theatrical cinematography. The first measure of a truly professional camera, is its ability to produce sharp, crisp, steady pictures on the original camera film stock. The ARRIFLEX 35 BL was built therefore from the inside-out, that is starting with the basic film movement.

The first achievement of the new camera's design is the solid, high-precision, dual-pin registration and four-pin pulldown movement, capable of operating at speeds up to 100 frames per second. Picture steadiness throughout the speed range, meets or exceeds all the exacting registration requirements of special effects cinematography, optical printing in all its forms, front and rear projection, multi-screen presentations, etc.

The film in the camera gate, is located both vertically and laterally by the dual-registration pins alone. No side pressure or guide rails are used or needed. Registration pin dimensions and location conform to international standards for laboratory printers, so that the extraordinary steadiness of the camera original is carried forward to masters, internegatives and release prints, with the least possible deterioration, producing rock steady pictures and flawless effects on the screen.

The camera film gate use the "fixed space" principle. Film as it moves through the gate and the focal plane, is confined to a fixed space, which is just deep enough to pass the thickness of the film. Only a small pad is behind the aperture itself. As a result, film is located exactly in the focal plane, yet allowed to move freely, frame by frame, without the need for a conventional pressure plate. The result is that the film is positioned with improved accuracy and consistency, and the danger of breathing or scratching is greatly reduced. Aperture plates are easily interchangeable without tools and all standard sizes including academy, full aperture and cinemascope are available.

THE REFLEX VIEWFINDER

The reflex viewing system of the 35 BL is based on the famous ARRIFLEX mirror-shutter design. The system needs no introduction here; it has become the standard of the industry! The ARRIFLEX 35 BL mirror-shutter provides an effective opening of 180°. It is an all-glass construction, selected for stability, precision and long-life. In the new 35 BL, this design is carried to its final perfection, with an electronically controlled mechanism that automatically positions the mirror-shutter in the viewing position, when the camera is stopped. The viewfinder is a high aperture lens system that creates a bright, crystal sharp image at 6.5x magnification. The eyepiece is ideally positioned. When the camera is shoulder mounted, the eyepiece comes comfortably to the eye level. The viewfinder assembly rotates 120° for easy viewing when special and difficult camera positions are required. The viewfinder image remains correct and upright in all positions. A series of interchangeable ground glasses will fit into the finder system and will be available with aspect ratio markings corresponding to all established screen formats. Mattes or contrast filters can be inserted at the ground glass plane.

THE MAGAZINES

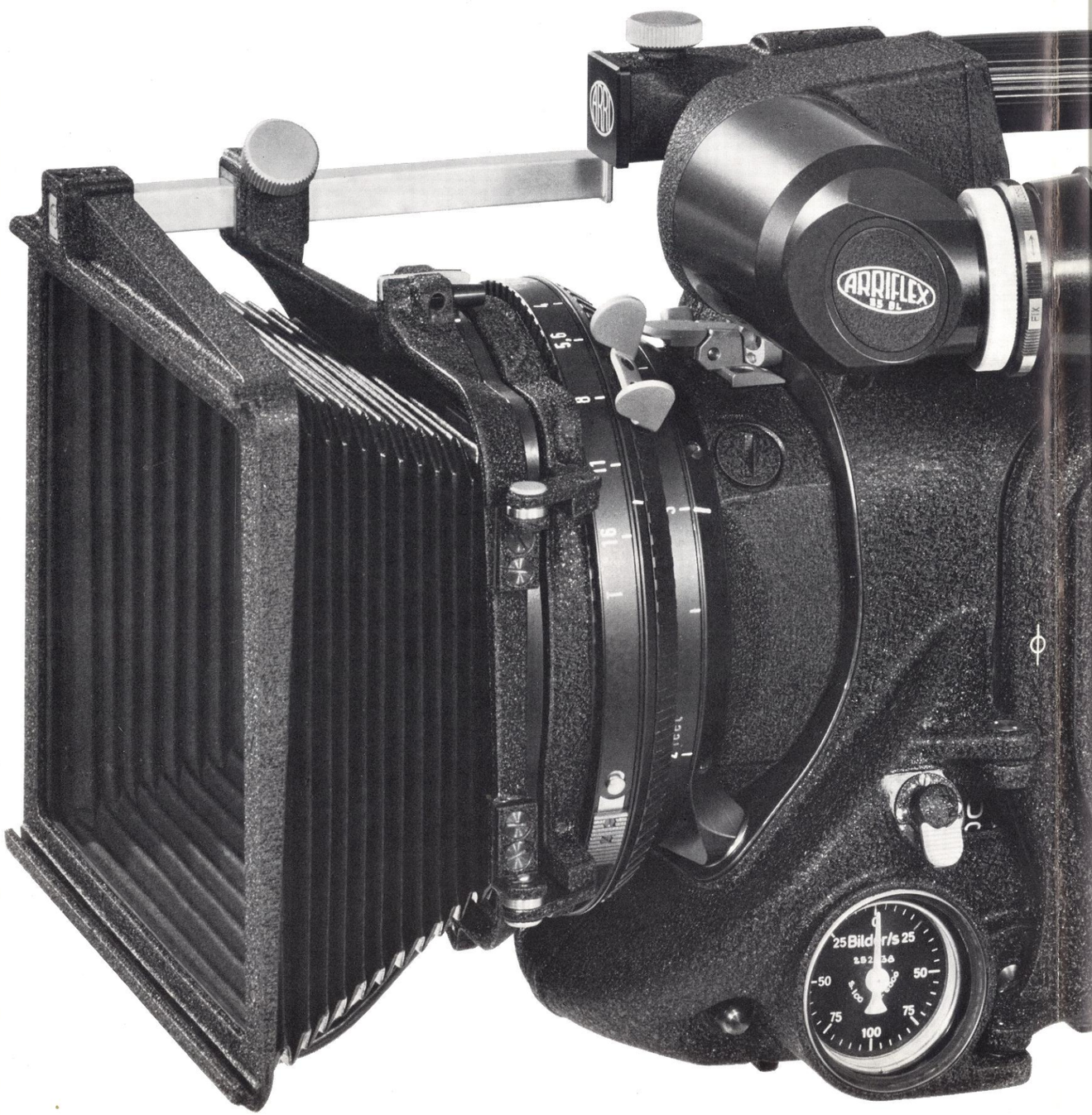
The complete film magazine system will include both 400 and 1000 foot models, (for forward operation only). Magazine design is based on the double compartment, coaxial configuration. The film sprockets are integral with the throat of the magazine, so that when the magazine is loaded, a film loop is formed and preset for quick threading in the camera film gate. A large camera door for unrestricted access to the transport mechanism, and a locating pin to insure proper perforation engagement by the transport claws, further facilitate film loading.

THE CAMERA MOTOR DRIVE

The camera motor is built into the camera body, thus the 35 BL has no awkward bulges or protrusions to interfere with easy handling and perfect balance. The motor itself is a space age, printed circuit device, extremely light and efficient, and serves practically every commercial filming requirement.

A built-in crystal control module will run the ARRIFLEX 35 BL at 24/25 fps and 60/50 Hz pilot output or for cordless double system sound from a standard 12 volt battery. A variable speed control accessory

ARRIFLE



EX 35BL



operates the camera in a speed range from approximately 5—100 fps. The complete ARRIFLEX 35 BL drive system, includes a large easy to read FPS Tachometer, and a gear-driven, digital footage counter. A speed warning light visible in the viewfinder warns the cameraman in the event the speed drifts out of crystal lock for any reason. At the same time an acoustic warning buzzer which has a volume control will sound off.

RESIDUAL NOISE LEVEL

The development of the silent 35 BL was truly a pioneering effort. Nothing like it had ever been done successfully in 35 mm format. And because there was no 35 mm precedent to start from, every material and technique, every part, every motion and camera function had to be evaluated, tested and specially designed. The very film itself, with its relatively large mass and high speed through the camera, (90 feet per minute with the camera running (24 fps.) added its own considerable noise problem.
Essentially, until now, the choice was between a camera that was silent, but big and heavy – or, one that was small and light but noisy. And that is exactly where the ARRIFLEX 35 BL is unique – it is compact and light (only 25 lbs.) and it is silent; with 400 foot magazine, motor and lens it operates with a noise level phenomenally down in the 31—32 db range, depending on the type of lens in use.

LENS SYSTEM

The ARRIFLEX 35 BL has a single lens mount, which accepts either standard Arri mount lenses, or the newer Arri Bayonet-Lock mount. The new camera will accept any of the fixed focal length lenses in the Arri 352 C program.
There are several very fine zoom lenses now available and several new ones under development. A new system of lens support cradles makes the ARRIFLEX 35 BL ideally suited for any of these lenses.

PILOTONE SYSTEM

The Arri 35 BL is equipped with all the essential facilities for pilotone synchsound filming. A selector switch on the camera can be set for all internationally used camera speeds and frequency combinations. (24/60, 25/50, 24/50) when working with recorders not equipped for crystal synch sound, a standard pilotone output connector is provided. The start marking lamps, for both full frame and edge marking are mounted in a plug-in module behind the camera aperture.

ACCESSORY SYSTEM

The ARRIFLEX 35 BL is a natural, for high quality synchronous sound location filming, because of its many special characteristics. However, because of its small size, lightweight and high precision, it is also the most able, adaptable, general purpose, 35 mm motion picture camera. Supplementing its basic capability, the 35 BL will be backed up by a system of major accessories. These include, 400 ft. and 1000 ft. coaxial magazines, lenses in fixed focal lengths ranging from 9.8 upward, zoom lenses of many ranges, telephoto objectives, and a complete system of matte boxes, power supplies, carrying cases, tripods, studio blimp and more.

TECHNICAL DATA

Film width:	35 mm
Camera speeds:	24, 25 and approx. 5—100 fps
Operating noise level, camera with universal lens housing, measured 1 m in front of lens:	approx. 32 dB (weighted A)
Operating noise level, camera with unblimped lens, measured 1 m in front of lens	approx. 35 dB (weighted A)
Magazine capacity:	400 ft (120 m) (1000 ft/300 m magazine in preparation)
Lens mount:	ARRIFLEX
Drive motor:	Universal DC printed motor 12 V = for crystal controlled operation 24/25 fps 36 V = for high speed operation up to 100 fps
Power consumption at 25—100 fps:	approx. 30 W – 200 W
Effective shutter opening:	180°
Speed control indicator:	Tachometer 0—100 fps, footage indicator in meters or feet Sync control, acoustical and optically visible in the viewfinder
Overall measurements:	Length 19 1/4″ (490 mm) Width 10 3/4″ (270 mm) Height 9″ (225 mm)
Weight of operational camera:	approx. 22 lbs (10 kg)
Tripod thread:	3/8″. Also operation with wedge plate
Temperature range:	–4°F to +104°F (–20°C to +40°C)

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