ARRIFLEX 35 BL
the quiet 35 mm mirror reflex motion picture camera for location synchronous sound filming



Today, films reflect the points of view and life-style of a new public.

The studio is being used less and less, in favour of dramatization against the authenticity of real locations.

Camera viewpoints are becoming more flexible and expressive.

This development, aimed at economy, makes special demands on a motion picture camera.

The ARRIFLEX 35 BL is not only a completely new camera, but part of a new, better way to make 35 mm films.

The presentation of the

Oscar 1974*

to our firm for the development of the ARRIFLEX 35 BL proves the importance of this camera.

*Academy Award conferred by the Academy of Motion Picture Arts and Sciences

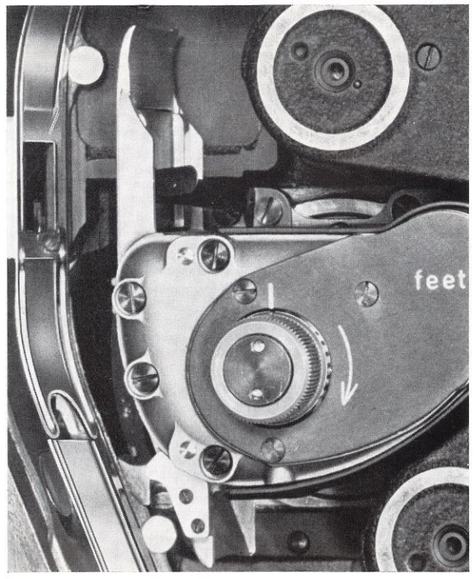
Camera Motor and Drive Unit

Film Transport and Film Guides

Film Loading

Camera Motor and Drive Unit

The printed circuit motor – with emphasis on its compact design, high performance and high electrical efficiency – is capable of a continuous speed range from 5 to 100 fps. For synch-sound operation at 24 and 25 fps with 50 or 60 Hz Pilotone output, a built-in crystal control circuit is used to drive the motor.
The two-bladed revolving mirror shutter renders an effective opening of 180°. An electronically controlled pulse system stops the mirror shutter always in the open viewing position. This can also be done manually by an inching lever on the side of the camera. A built-in tachometer indicates framing rates of up to 100 fps. A digital film counter records the exposed footage in feet or meters respectively.



Quick film threading and easy cleaning of the film gate by means of the push-back claw mechanism

Film Transport and Film Guides

(DBP and foreign patents)
The new film transport system, developed especially for this camera, utilizes two dual transport claws and two registration pins. Low mass components and careful dynamic counterbalancing assure vibrationless operation at even the highest framing speeds. Hereby the camera retains its quiet run even at speeds of approx. 100 fps, which is of great advantage with various assignments such as filming sporting events. The two precisely finished registration pins which hold the film during the exposure cycle, guarantee optimum image steadiness. Both horizontal and vertical film registration is accomplished with those pins. A fixed gap film channel with a small back pressure pad, which is effective only immediately behind the aperture, prevents emulsion build-up in the gate.
Aperture plates are easily interchangeable without tools. All popular aperture sizes, such as academy, full aperture and cinemascope are available.
The positioning of transport claws and registration pins in relation to the aperture conforms to international standards set for optical printers. This way, the image steadiness of the camera negative can be maintained throughout the subsequent printing steps.
Located behind the aperture plate, in a single plug-in module are the miniature lamps for start-marking full frame and edge. The module also contains a bulb for the speed warning light.

Film Loading

The large camera door offers unrestricted access to the aperture area for film loading. The magazine with its preformed film loop simply slides on to the camera body where the drive couplings automatically engage. To further facilitate this process, an index pin which protrudes when the film channel is open, locates the loop for proper engagement with the transport claws.

Technical Data



with Angenieux 25 – 250 mm on support bracket



400 ft (120 m) magazine

ARRIFLEX 35 BL with universal lens housing and

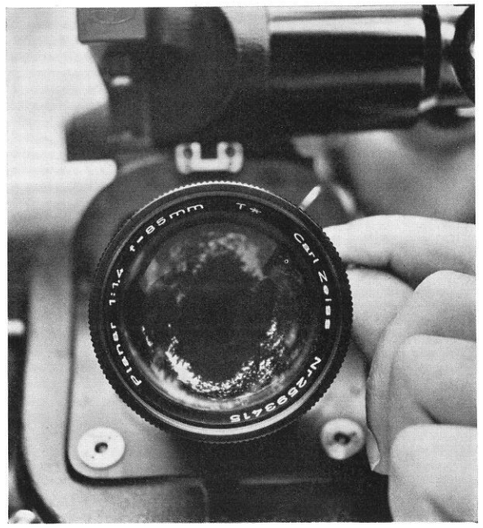
1000 ft (300 m) magazine



Technical Data

Film width:	35 mm
Camera speeds:	24, 25 and approx. 5—100 fps
Operating noise level, camera with universal lens housing, measured 3 ft (1 m) in front of lens:	≤ 28 dB (weighted A)
Operating noise level, camera without lens housing, measured 3 ft (1 m) in front of lens:	approx. 35 dB (weighted A)
Magazine capacity:	400 ft (120 m) and 1000 ft (300 m)
Lens mount:	ARRIFLEX steel bayonet
Drive motor:	Universal DC printed motor 12 V— for crystal controlled operation 24/25 fps 36 V— for operation up to 100 fps
Power consumption at 25—100 fps:	approx. 30—200 W
Effective shutter opening:	180°
Control indicators:	Tachometer 0—100 fps Footage counter in meters or feet Footage indicator for magazine in meters or feet Out-of-sync control, acoustical, optically visible in the viewfinder Blinking light for control of camera run
Overall measurements with 400 ft/ 120 m (1000 ft/ 300 m) magazine and lens housing:	Length: 20¾"/525 mm (24¾"/630 mm) Width: 10¾"/270 mm Height: 9"/230 mm (12¼"/310 mm)
Weight of operational camera with 400 ft (120 m) magazine:	approx. 28½ lbs (13 kg)
Tripod thread:	⅜". Also operation with wedge plate

Lenses



Lenses

A lens receptacle with steel bayonet mount for lenses with the ARRIFLEX mount guarantees the exact flange to film distance of 52 mm.
The extremely high-speed lenses,

Zeiss	Distagon	T 1.4	25 mm
	Distagon	T 1.4	35 mm
	Planar	T 1.4	50 mm
	Planar	T 1.4	85 mm

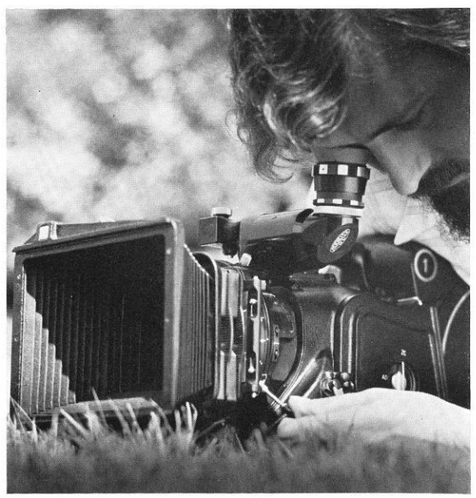
developed for the ARRIFLEX 35 BL, greatly increase the scope, flexibility, and economy of this camera. Of course, all lenses from our 35 II C program can also be used, as well as zoom and telephoto lenses with special support brackets.

Distance and diaphragm scales are easily visible during both handheld and tripod mounted operation.

Viewfinder

Viewfinder

The proven ARRIFLEX mirror reflex system was also chosen for this new camera design. As mentioned before, the 180° shutter always stops in the open viewing position. The finder channel and its optics are of a very high aperture rendering a bright image even at small lens openings.
The viewfinder tube can be rotated from the horizontal position 90° up and 30° down with the ground glass image remaining correctly positioned. The magnification ratio for the viewfinder image is a comfortable 6.5 times. In the event of a sudden camera speed change, a red warning light will come on in the viewfinder, signalling the problem to the cameraman. This is especially important if the volume on the acoustical warning buzzer has been turned off. Ground glasses are easily interchangeable and all standard aspect ratios are available.



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

Magazines
Hand Grip and Carrying Handle

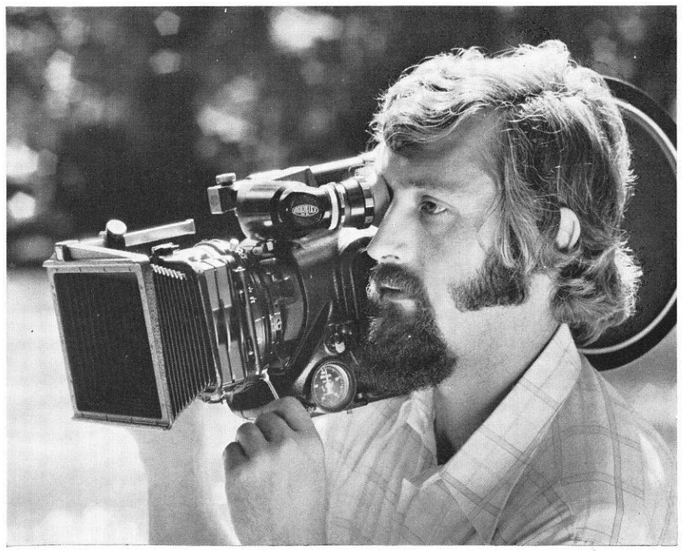
Magazines

Both the 400 ft (120 m) and the 1000 ft (300 m) coaxial magazines are designed exclusively for forward operation. Their compact, lightweight configuration enhances the portable design of the camera. All magazines are equipped with film supply indicators for both acetate and polyester based film.

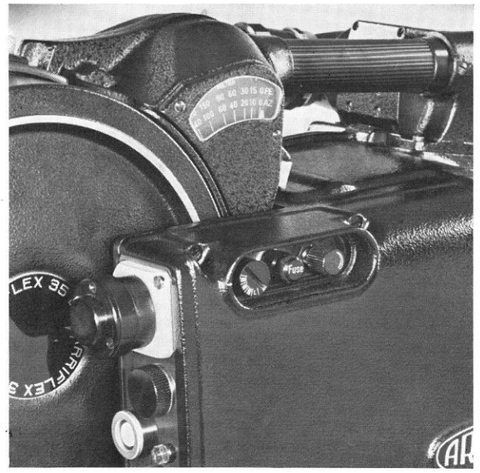
Hand Grip and Carrying Handle

The ARRIFLEX 35 BL, with the 400 ft (120 m) as well as the 1000 ft (300 m) magazine, rests well-balanced on the cameraman's shoulder. An adjustable hand grip containing the on/off switch, and located on the right-hand side at the front, enables steady camera operation while filming from the shoulder; this can even be improved by means of an additional camera support with an adjustable hand grip on the left-hand side. Because of the functional placement of the carrying handle over the camera's centre of gravity, the camera is well counterbalanced when being carried.

Low silhouette and excellent balance allow for snug, comfortable shoulder position during hand-held filming, especially with 1000 ft magazine



Accessories



Easily readable film supply indicator
Selector switch for 24 or 25 fps at 50 Hz or 24 fps at 60 Hz and for lamp control. Practical carrying grip

Accessories

400 ft (120 m) and 1000 ft (300 m) magazines

Universal lens housing, applicable for lenses with focal lengths from 16 to 85 mm. Filter slot for 3" and 4" filters; interchangeable iris and focusing scales. Extension for lenses with focal lengths of up to 135 mm.

Special lens housing for the afore-mentioned high-speed lenses. The filter holder and matte box from the universal lens housing can be used here.

Sound-insulated lens support for zoom and telephoto lenses.

Camera support with adjustable hand grip on the left side for shoulder operation with the 1000 ft (300 m) magazine; also for use with the 400 ft (120 m) magazine, to facilitate optimum camera operation.

Standard matte box with double extension and two filter stages; rear stage can be rotated for polarising filters.

Centering plate for tripod operation, adjustable according to camera complement.

Eyepiece extension for tripod filming in preparation.

Power supply with camera speed control.

Batteries, charger, ground glasses, filters, tripods, carrying cases.

Titel foto: Jürgen Gorter-Film München



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TELEX 06-968585

ARNOLD & RICHTER KG · MUNICH

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Printed in West Germany WA/HD