

ARRI®

ARRIFLEX 35 III



ARRIFLEX 35 III

The Most Popular Modern 35 mm Camera for principle and second unit cinematography. Exceptionally easy to operate, robust, reliable and precise.

THE ARRIFLEX 35 III SEEN AT A GLANCE

- VARIABLE REFLEX SHUTTER made from lightweight silicon. The exposure time can be synchronized with the mains frequency of HMI/CID discharge lamps for flicker-free filming.
- FORWARD/REVERSE registration pin for frame speeds of 5-120 fps. Exposure is also possible in reverse run.
- FILMGATE with special washboard finish for reduced film friction at high speeds and for gentle handling of different range of film materials.
- DIFFERENT VIEWFINDER ATTACHMENTS for diverse application areas.
- SELECTABLE METER/FEET DISPLAY for international service.
- ACCESSORIES compatible with the 35 BL camera system.
- HIGHSPEED ATTACHMENT for speeds up to 120 fps.

THE REFLEX SYSTEM

The single part rotating mirror shutter is made of extremely durable silicon. It is adjustable in increments of 15° from 15°- 120° shutter openings and in addition has 135°, 144°, 172.8° and 180° shutter opening positions. The fixed values 180°, 172.8° and 144° permit the synchronization of the exposure time with the cycle period of HMI light. The camera stops in the viewing position, once the camera is switched off.

THE MOVEMENT

A precise cam-controlled movement transports and registers the film at speeds of up to 120 fps. The movement operates with high reliability and accuracy at all filming speeds. Guaranteed picture steadiness is less than 0.1% of the frame height.

The 35 III can expose the film in forward and reverse run at frame speeds of up to 120 fps. The registration pin can be easily switched over from forward to reverse run (see fig. 1).

PRECISION IN FILM GUIDANCE

A fixed gap film channel keeps the film in an optimal position between the film gate and the film guide. The special finish of the filmgate guarantees minimum friction at all filming speeds. Film gates for differing formats are quickly interchangeable.

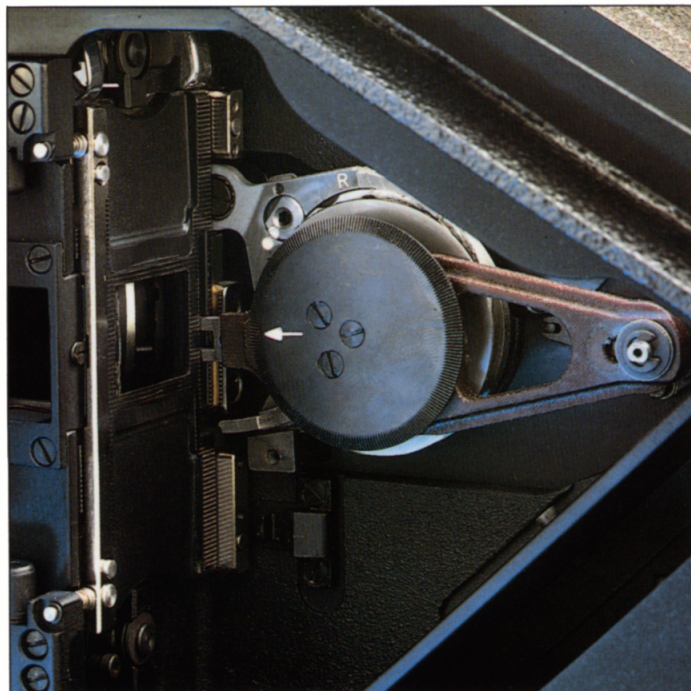


fig. 1

THE VIEWFINDER SYSTEM

The viewfinder and focusing screen system gives the camera its mobility and flexibility to fulfil the practical requirements of diversified application areas. Easily interchangeable focusing screens are available for different film and television formats.

Three readily interchangeable viewfinder attachments are available for the ARRIFLEX 35 III:

- The pivoting viewfinder attachment for universal service. It can be continuously swivelled through 210° (see fig. 2).
- The offset viewfinder attachment transforms the ARRIFLEX 35 III into an ideal shoulder camera. The camera's centre of gravity is transferred to the back to provide a comfortable and relaxing camera hold (see fig. 3).
- A rigid viewfinder attachment, prepared to accept an anamorphic unsqueezing element or a video adapter (see fig. 4).

The special accessories for the ARRIFLEX 35 III include:

- A heatable eyecup for the super-wide-angle eyepiece. The eyepiece lens no longer becomes steamed up, thus always ensuring optimal viewing conditions.
- A viewfinder extension with swivel-in contrast filter for all viewfinders. This is recommended when the camera is used on a tripod.



fig. 2



fig. 3



fig. 4

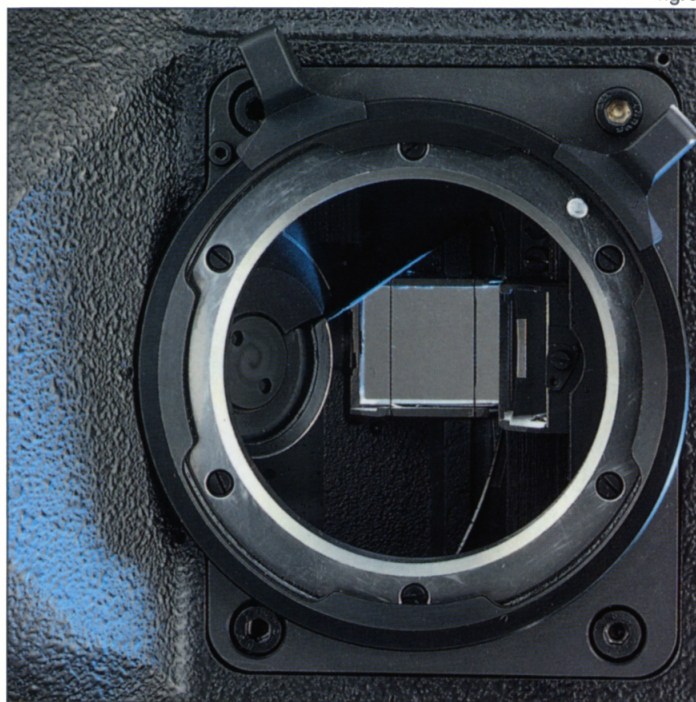
THE LENS SYSTEM

A wide range of lenses for different applications is available for the ARRIFLEX 35 III:

- Standard lenses in focal lengths from 12 to 600 mm
- Super-fast lenses in focal lengths from 18 to 85 mm from the ARRIFLEX/ZEISS high-performance series. The lenses in this series have a speed of 1:1.2 at T-value of 1.3.
- Zoom lenses



fig. 5



All lenses are fitted with a PL-mount for fast and uncomplicated lens changing (see fig. 5).

Technical data:

Film format	35 mm
Shutter sector opening	180°, 172.8°, 144°, 135° and from 120° to 15° in 15° increments
Lens mount	54 mm diam, PL
Viewfinder magnification	6.5 times
Viewfinder system	mirror-reflex system with interchangeable camera doors with: <ul style="list-style-type: none">- Pivoting viewfinder- Offset viewfinder- Rigid viewfinder
Frame speeds	24/25 or 30 fps quartz stabilized; 5-50 fps variable (internal); 5-120 fps variable (external via HSU 120)
Frame speed display	electronic digital LED display
Film length counter	electronic digital LED display
Drive	quartz-controlled d.c. disc-type motor
Power supply	12 V for frame speeds of 5 to 50 fps 24 V for frame speeds of 5 to 120 fps
Battery operation	12 V 7 Ah NC



Single-compartment magazines	200i, (60 m), 500 ft (150 m) forward and reverse, 1000 ft (300 m)
Dimensions (without lens), with 500 ft (150 m) magazine and rigid viewfinder	l: 322 mm; w: 183 mm; h: 335 mm
Weight (without film)	
With 200 ft (60 m) magazine	5.9 kg
With 500 ft (150 m) magazine	6.7 kg
With 1000 ft (300 m) magazine	8.6 kg

THE ARRIFLEX 35 III



THE CONTROL ELEMENTS

All switching and digital controlling elements of the ARRIFLEX 35 III are conveniently arranged for simple and practical camera operation (see fig. 6 and 7).

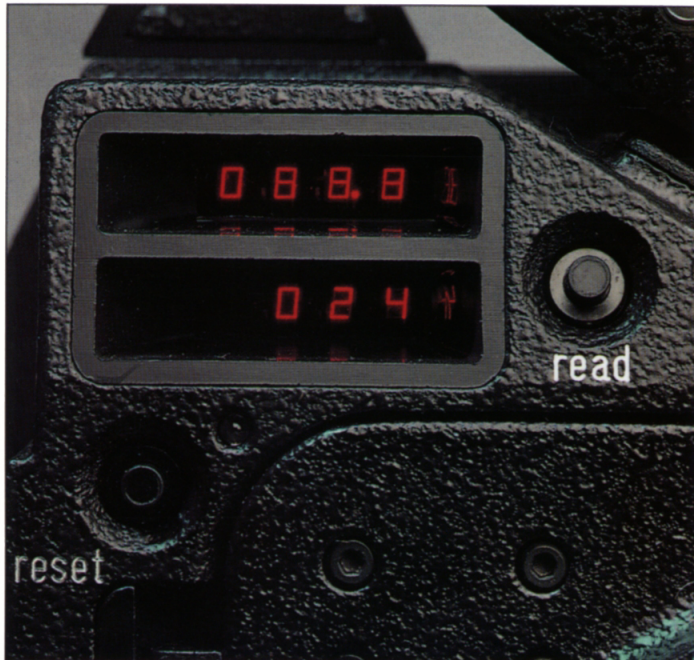


fig. 6



fig. 7

THE ACCESSORIES

– Virtually all accessories of the ARRIFLEX 35 III are compatible with the accessories of the ARRIFLEX 35 BL.

BRIDGE PLATE AND LENS SUPPORT

The bridge plate allows optimized weight compensation of camera and accessories when they are mounted on a tripod. Adjustable supporting rods are used to mount the universal follow focus device, lens support and production matte box. The camera, together with accessories and the upper section of the bridge plate, can be moved as a single unit from the tripod in a matter of seconds. For heavy lenses lens supports with corresponding support rings are available.

LIGHT-WEIGHT FOLLOW FOCUS SYSTEM/ UNIVERSAL FOLLOW FOCUS SYSTEM FF-2

The FF-2 follow focus system operates virtually free of play. The light-weight follow focus system serves for comfortable shoulder operation. The universal follow focus system FF-2 can be operated from both sides. Both systems are operated via levers or flexible shafts.

MATTE BOXES

All matte boxes are adaptable to various lenses and camera field applications:

- The light-weight matte box is attached to the lens, and accepts 3"x3" filters.
- The bellows matte box is mounted on the light-weight support. It has a fixed and a rotatable stage for 3"x3", 3"x4" and 4"x4" filters.
- The 4"x4" production matte box has 3 filter stages (one of which is rotatable), and a rotatable filter ring for 4½" round filters. The matte box can be swung open by 90° for lens changing.
- The 5"x6" production matte box has one rotatable filter stage for two 5"x6" filters that can be pushed through, and a filter ring for 138 mm round filters. Another rotatable filter stage with flexible drive for a graduated filter can be attached. This matte box, too, swings open for lens changing.
- The 6.6"x6.6" production matte box is fitted with 3 filter frames. It will accept a filter ring for 6", and a 138 mm round filter.

The production matte boxes are mounted on the supporting rods of the bridge plate.

FILM MAGAZINES

Single-compartment magazines for film lengths of 200 ft (60 m), 500 ft (150 m) and 1000 ft (300 m) are available for the ARRIFLEX 35 III (see fig. 8). Each magazine indicates how much film is still available for exposure. Reverse running is only possible with the 500 ft (150 m) film magazine.



fig. 8

VIDEO ASSIST

The viewfinder image of the ARRIFLEX 35 III can be transmitted to a monitor with the help of a video assist. This provides an additional check for picture perspective and composition. A mini-monitor can also be mounted on the camera for this purpose.

ELECTRICAL ACCESSORIES

- HIGHSPEED unit HSU for forward and (with adapter) reverse running at speeds of up to 120 fps.
- Panhandle remote control on/off switch RCSR for tripod operation.
- Phase shifter PHU II to film from quartz-synchronous television monitors.
- External synchronizing attachment EXS II to synchronize the

camera with the mains, another camera, or with the BAS signal of a monitor.

- Mains synchronizing transformer MSYTR2 (supplements EXS II) with a primary voltage of 220 V/50 Hz, and a secondary voltage of 1 V.
- Electronic tachometer and film length counter (meter and feet), with automatic storage of the counted length.
- External pilotone unit, 50/60 Hz.
- Accessory distributor ZV for simultaneous connection of two accessories.

THE NICKEL-CADMIUM BATTERY

The nickel-cadmium battery, type NC 12/7 R-1, is protected by an impact resistant, plastic coated housing that is water tight at the base. A temperature sensor in each cell protects the battery from damage when it is being charged.

THE ARRI BATTERY CHARGERS

The normal charging time with the NCL 08/R-1 battery charger is 14 hours. Batteries with temperature monitoring (R series) can be rapid-charged in 3.5 hours.

Two batteries can be simultaneously charged with the NCL 08 D double battery charger. It is fitted with a residual discharger for batteries that have not been completely discharged. This helps to maintain full capacity of the batteries over a longer period. Both chargers can be operated in the range between 4 Ah and 7 Ah with 8 V, 12 V and 16 V batteries.

The units are equipped with an automatic mains voltage change-over from 100 V to 240 V. A special housing limits the temperature of the battery chargers to a maximum of 40°C while charging.

THE ARRIFLEX RANGE OF CASES

Aluminium cases in different sizes provide effective protection for camera and accessories during storage and transportation.

THE ARRI RANGE OF TRIPODS

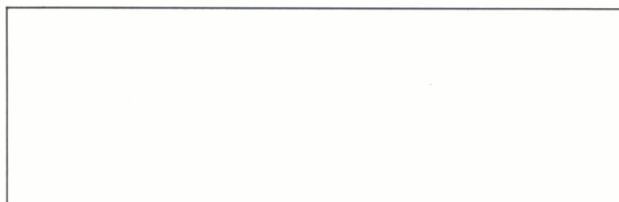
ARRI offers a range of tripods for all applications. The ARRI Hydro Heads 150 H (heavy) and 150 M (medium) can be fitted with tripod leg sets of differing length.



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