

ARRIFLEX

35 IIII



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35 III

The ARRIFLEX 35 III is an up-to-date camera; with exchangeable viewfinder system, automatic shutter stopping feature, variable frame speed range up to 100 fps, 300 m and 150 m magazines among its facets the camera is fully equipped to meet every situation.

The ARRIFLEX 35 III with its high-speed and optical effects features is the ideal second production camera when used in conjunction with a 35 BL model.

The complete ARRIFLEX 35 BL accessory programme can be used with the new 35 III.

The camera is light and handy; the optics and mechanics are ARRIFLEX top quality; an easy-to-service camera which meets the most demanding requirements.

The complete camera movement, the 180° shutter opening and the camera drive form a compact exchangeable mechanical unit. The individual electronic printed circuits are also easily exchanged. Also the powerful 12/24 V DC motor, which, in conjunction with the new, technically high-developed camera movement with claw system guarantee a perfectly steady image even at 100 fps. Additionally, the motor is designed for forward and reverse travel.

ARRIFLEX



Technical Data

Film width:
35 mm

Shutter opening:
180°

Lens mount:
Suitable for all ARRIFLEX
35 mm lenses

Magazines:
60 m (200 ft), 300 m (1,000 ft),
150 m (500 ft), suited for forwards and
reverse travel

Mirror reflex system:
with rotatable or rigid viewfinder

Frequency output:
for external pilot tone connection

Supply voltage:
12 V for 6 - 50 fps
24 V for 6 - 100 fps with
HSU accessory

Drive:
DC motor

35 III



Current consumption:
ca. 2,5 A at 24/25 fps

Frame speed range:
quartz 24/25 fps
variable 6 - 50 fps built in
variable 6 - 100 fps via HSU

Electronic counter with meter of feet
display

Electronic frame speed display

Out-of-sync display visible in viewfinder

Forwards and reverse travel (external)

Shutter stopping feature

Temperature range:
—20°C +50°C (—4°F +122°F)

Weight of camera ready to shoot,
without film with:

60 m magazine	5.9 kg (13. lbs)
150 m magazine	6.7 kg (14.8 lbs)

Dimensions (with 150 m magazine
and positioned rigid viewfinder):

Length (without lens)	322 mm
Width	183 mm
Height	335 mm

The mirror reflex viewfinder

The ARRIFLEX mirror reflex viewfinder system works with a one-piece 180° mirror shutter. An automatic shutter stopping feature stops the shutter at viewing position when the camera is switched off. The image is unusually bright and clear. The ground glass screens with format markings for film and television are identical to those used in the 35 II C and can easily be exchanged with a special clamp.

A viewfinder extension can be fitted between the eyepiece and the viewfinder. With this accessory the cameraman can move more freely and can look in the viewfinder without hindrance when a 300 m magazine is in position; it is also a great aid for shooting from a bird's or worm's eye view.

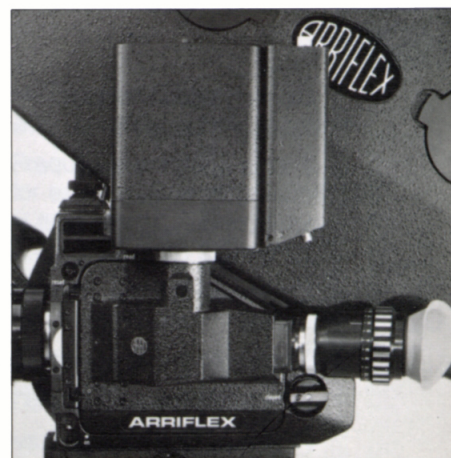
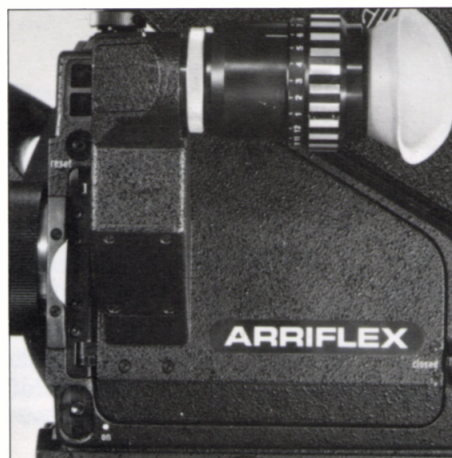
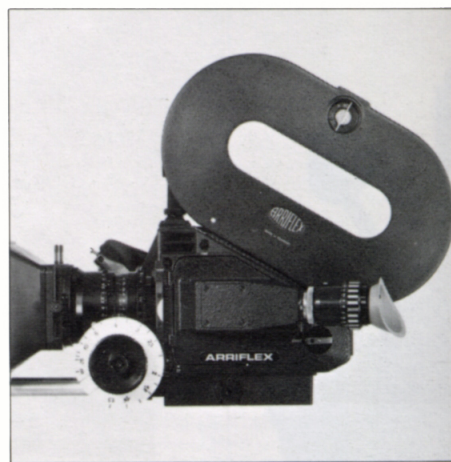
Exchangeable camera doors

There are different camera doors available for use with the ARRIFLEX 35 III; with their special hinges they can be interchanged in no time.

For universal shots the rotatable viewfinder is best suited. It can be steplessly adjusted through ca. 210°. With this viewfinder the cameraman can continuously change the viewfinder to meet each situation — even when shooting. With an adjustment knob the friction control can be set until the desired drag coefficient is achieved. The rotatable viewfinder is mainly used for shots from a tripod, when the viewfinder extension is being used or for special adaptation of the 35 III for example when used with a helicopter mount.

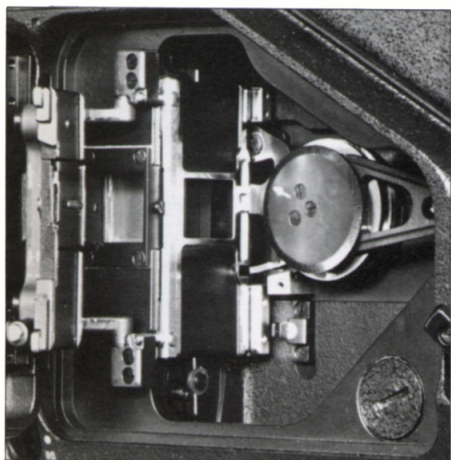
For news shots and shots from different locations when the 35 III is used on the shoulder the angular viewfinder is best suited as, when in position, it moves the centre of gravity of the camera backwards and so the camera sits better.

The rigid viewfinder in the standard version of the 35 III is delivered with a wide-angle viewfinder and is ready to take an anamorphic rectifier or video unit. For Techniscope, CinemaScope and UltraScope we recommend the viewfinder extension with integrated anamorphic element.



Film transport and film guide

In the ARRIFLEX 35 III a completely new technically high-developed registration pin system is used which, in conjunction with the precision film guide, guarantees excellent image steadiness. Even at high frame speeds the two pull-down claw pins transport the film trouble free and the registration pin holds the film during exposure so that picture steadiness deviation does not exceed 1‰ of the image height. The film is treated in the best way possible with the spacer channel and the hard chrome polished surface of the film guide — the film only touches the film gate in the picture area. With this film guide system emulsion deposits on the film gate are avoided as far as is possible. The registration pin system operates trouble free in a temperature range of $-20^{\circ}\text{C} + 50^{\circ}\text{C}$ (-4°F to $+122^{\circ}\text{F}$) so long as the film and camera are treated correctly.

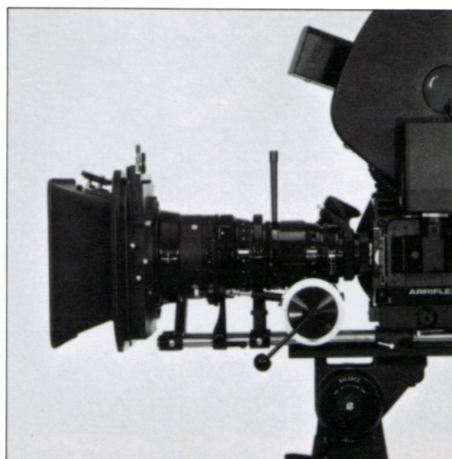


Film gate

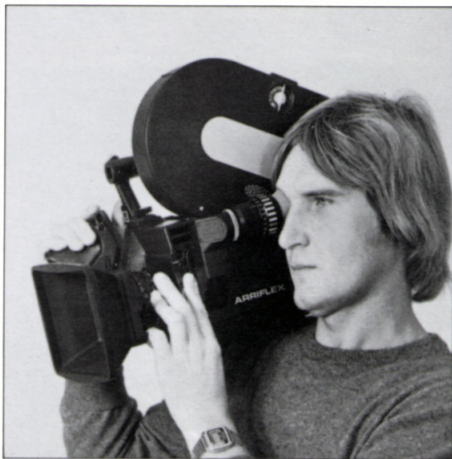
The quality of the film exposed is dependent also on how clean the film gate was. The film gate in the 35 III can easily be removed for cleaning; it is designed to be removed and replaced without needing adjustment afterwards and can also be exchanged with film gates for sound, silent or scope formats.

Matte boxes

Depending on the lens used the 6.6" x 6.6" or the 4" x 4" production matte box can be fitted using the bridge and support plate. A 3" light-weight matte box which is fitted directly onto the lens or to the camera with an adapter is also available. In addition, in our programme, there is a rectangular sunshade with different adapter rings for fixed focal length lenses.



ses. Filters can be inserted into the matte box. Reflex protection rings are also available to avoid troublesome light reflection.



The lenses

With the ARRIFLEX 35 III — as with the 35 BL III — all unblimped 35 mm ARRI lenses can be used. Another example of the universal use of the 35 III as a second camera to the 35 BL III.

The magazines

The ARRIFLEX 35 III magazines are single compartment magazines and are available for 60 m (200 ft), 150 m (500 ft) or 300 m (1,000 ft) of film on a plastic bobby. Each magazine is supplied with a loop protector. For weight reduction the 300 m magazine is made of rigid plastic with an anti-static metal frame. The 150 m magazine is suited for forward and rever-



se travel. The magazine lids can be completely removed.

Symmetrical construction allows the lid of the 300 m magazine to be turned through 180° and still be locked safely for operation. The supply of unexposed film is shown on an analogous scale in meters or feet. The magazine is fastened to the camera via a snap lock.

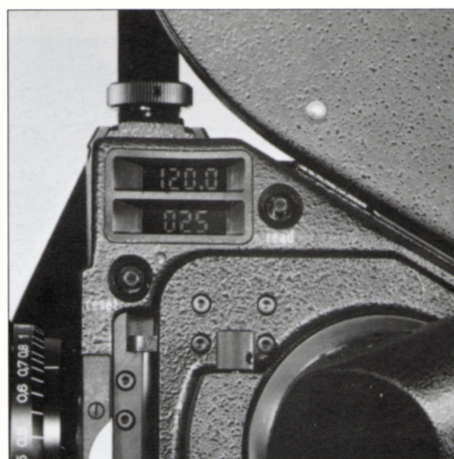
The control panel

The control parts are located on the right hand side at the rear of the camera; they are easy to see and placed together on the control block for ease of operation. The desired frame speed is selected here and, if necessary, the fuse can be exchanged in next to no time. The mode selector switch and the knob for variable frame speed selection, the mirror shutter inching knob as well as the bridge plug which must be removed for high speed shots are all ergonomically located here. The cable for electrical accessories and for the battery connection are plugged in at 90° to each other and as such do not interfere with the cameraman either when filming from a tripod or from the shoulder.



The control displays

The selected frame speed as well as the exposed film counter (in meter or feet) can be read glare free from the electronic digital display. A memory, powered by its own battery, retains a reading for up to six months. After this time a warning lamp indicates that the battery must be changed. The amount of unexposed

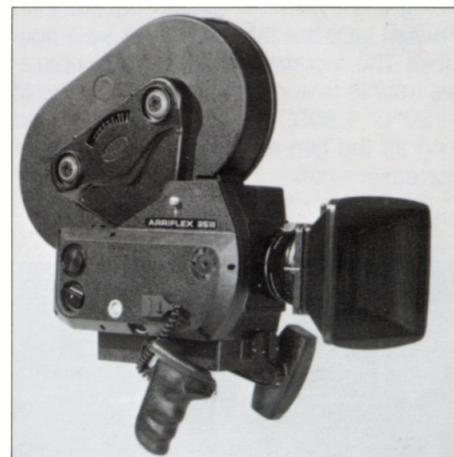


film is shown in meter of feet on a scale on the magazine. It is governed by an arm on the film roll. The camera also possesses a visual sync control red lamp in the viewfinder image. Variable frame speeds are also shown in the viewfinder image with a green control lamp.



The hand grips

We can supply a right hand or left hand grip for the 35 III. The right hand grip is fitted directly onto the camera rosette, can be fitted in the most comfortable position and is provided with an electrical release. The left hand grip, with or without electrical release, is screwed onto an adapter plate which is also needed for fitting the camera to the bridge and support plate. For special situations when two hand grips are required, for example aerial shooting, two hand grips can of course be used at the same time.



The carrying handle

The carrying handle for the 35 III is provided with two holders for ARRI accessories; when no accessories are being used it is easily unscrewed and removed. Its position on the camera and its form, even when accessories are fitted to both holders, hinder the operation of the camera and magazine in no way whatsoever.

The electrical accessories

The following electrical accessories can be supplied for use with the 35 III:

The EXS II external synchronizer for synchronizing the camera with the mains, with another camera or with the BaS signal from a monitor (signal $50/60 \text{ Hz} \geq 1 \text{ V}_{pp} \leq 10 \text{ V}_{pp}$) signal sin or imp BaS. The EXS II has a built-in remote on / off switch, out-of-sync indicator, camera type selection switch, a built-in phase shifter and is fitted with a monitor sync cable.

The NSYTR 2 synchronizing transformer for 220 V / 50 Hz primary and 1 V secondary for mains synchronization of the camera with EXS II external synchronizer.

The PHU phase shifter permits correction of the phase relationship of the



quartz controlled camera when filming from quartz controlled TV monitors.

The EFC 35 electronic tachometer and exposed film counter; the reading can be given in meters or, when switched over, in feet. The reading is automatically stored in a memory.

The ZV accessory distributor for connecting two accessories simultaneously.

The high speed cable HSU / 24 V for 100 fps for use of two 12 V batteries with the 35 III.

The external pilot tone unit, switchable 50 / 60 Hz.

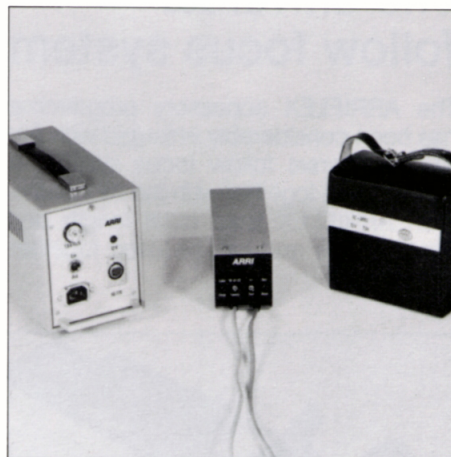
The RCSR pan handle with cable and 11 pole plug for connecting to rear side of camera.

Power supply

The 35 III is supplied with power from an NC battery (NC 12/7) with a capacity of 12 V and 7 A, which can be carried on a shoulder strap. The camera is connected to the battery either with the 1,8 m long battery cable KCU or with the coiled cord, KCU Sp, also 1,8 m long. There is a special charging unit NC L/08 available for charging the batteries; this unit has a time switch and voltage selector. There is also an Energy Set available to power the camera; this set is comprised of the camera battery NC 12 / 4 E with a capacity of 4 Ah, and short circuit cut-out feature and the insulated charging unit NCL 12 / 4 E with automatic voltage selector 110 / 220 V.

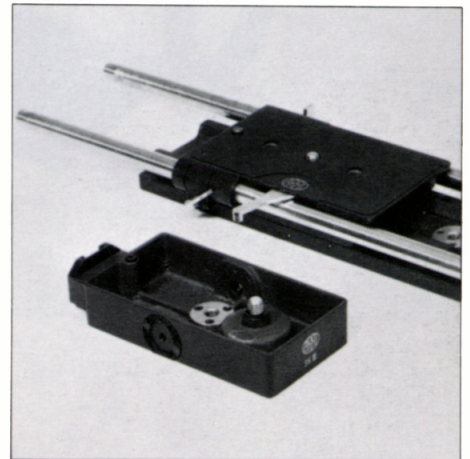
The charging unit has an accelerated charging feature. Both units have a hard rubber impact resistant housing which stands up to the roughest conditions. The battery has a snap-on fastening shoulder strap; it can also be attached to the cameraman's belt.

For studio use we recommend the mains unit NG 7 U. This unit can be set for 110 / 220 V and 50 / 60 Hz. Output of this mains unit is 12 V with 10 Ampère.



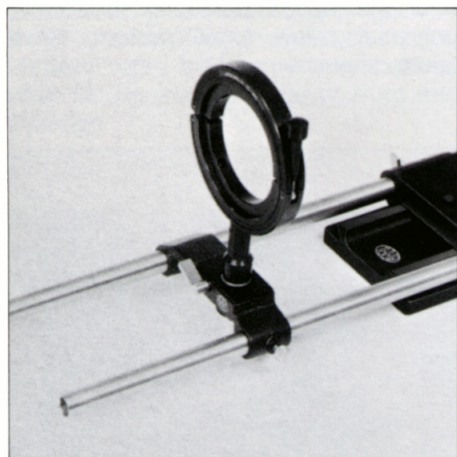
The bridge and support plate

The bridge and support plate enables the weight of the camera with accessories to be evenly balanced. The base plate of the bridge plate is attached to the tripod. The upper element which is attached to the camera using an adapter plate can be moved backwards and forwards in a dovetail guide and clamped when the optimal balance is found. The camera can be removed in seconds from the tripod. The support rods (short and long) of the bridge plate can be adjusted and are used to support the following accessories: lens support, production matte box, universal follow focus system, servo zoom drive.



The lens support

When heavy lenses are used it is advisable to use the lens support. This support is placed onto the rods of the bridge plate and fixed in the position required. The lens is held with a support ring which prevents the lens sitting incorrectly in the camera. The support ring is hinged and so permits the lens to be changed easily without having to remove any accessories which might also be in position on the support rods.



with the ARRIFLEX bridge plate for all 35 mm and all 16 mm ARRIFLEX cameras. It is easily and quickly fitted and the camera assistant has the choice of operating it from the right or left hand side. One of the advantages of the system is that it permits easy remote control with follow focussing by means of a flexible shaft. The marking discs can be exchanged.

shots, can be simulated. The long time span from 1 sec. to 8 mins. enables the cameraman to increase or decrease the zoom speed, Dolly shots to and from the object with hardly any perceptible change of picture size.

Adaptation of a video system

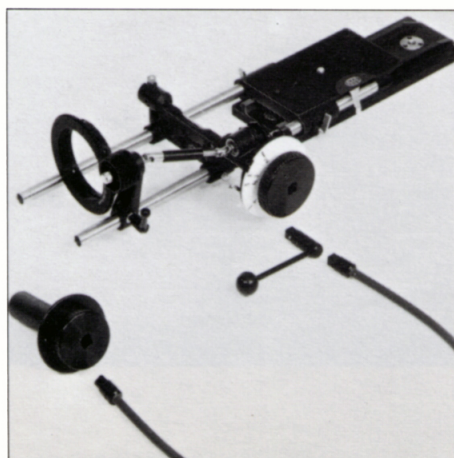
The video adaptation enables the director and others working on the production to view the finder image independently of the cameraman, on any desired number of monitors, in accurately framed, true perspective, during shooting or when the camera is not running. The cameraman as well as the assistant, when a mini monitor is fixed to the camera, can use it as an additional control of the camera setting. The video adaptation system can be used to save time and money in a whole range of situations from the advertising film production to feature film applications, for example when working with a camera crane

The universal follow focus system

The ARRIFLEX accessory programme has been considerably enlarged with the ARRI universal follow focus system. It can be used together with the most common ARRIFLEX fixed focal length and zoom lenses and can be used together

The servo zoom drive

The servo zoom drive, composed of motor, motor support and zoom hand grip, is used for motorized focussing of zoom lenses and is fitted to the bridge plate support rods. The zoom hand grip is provided with a pan handle bar for use on a tripod. The servo zoom drive enables focussing with linear or progressive zoom speed control with a uniformity impossible to achieve manually. Moving objects can be followed at constant image size and certain shooting situations, e.g. Dolly



Tripods

ARRI offers tripods for all applications, in different models. Also available from ARRI are tripod accessories ranging from leather hoods, tripod spiders, scooters and adapter plates, to name but a few.

Cases

For transporting and storing the ARRI-FLEX 35 III we can supply an aluminium case measuring 54 cm x 34 cm x 42.5 cm. We can also supply an aluminium case which holds three 150 m / 400 ft magazines; the case measures 29 cm x 29 cm x 38 cm.

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