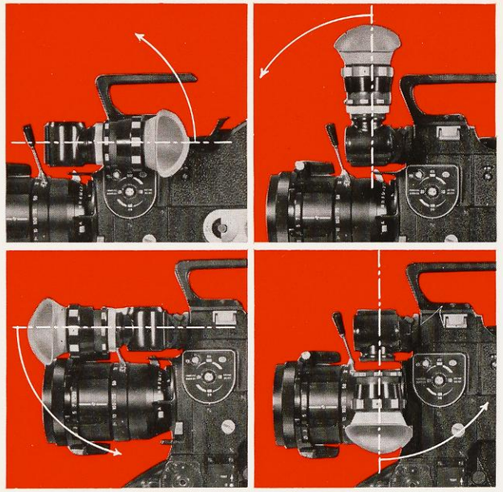
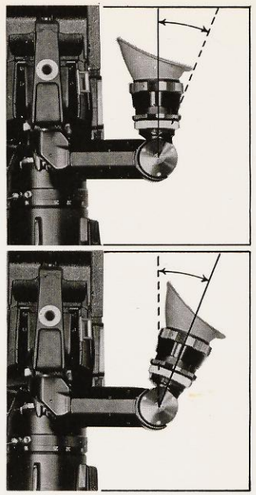


ARRIFLEX 16 SR

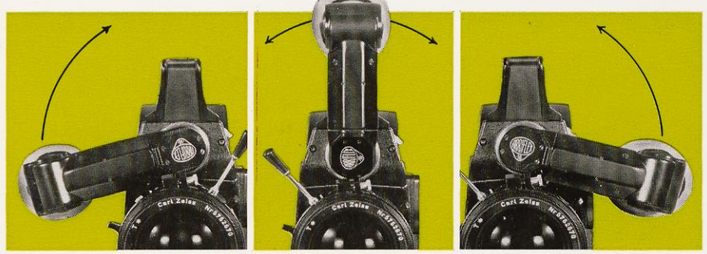
- 400 ft coaxial quick-change magazines
- Small, handy transport case for the camera ready for operation
- High-speed viewfinder assembly with 10x magnification, rotating and pivoting in 3 planes with optical image compensation – interchangeable eyepiece
- 180° mirror-reflex shutter
- Kinematic multijoint film movement with registration pin
- Special DC motor without commutator, crystal controlled, 24/25 fps, with slave mode. Extensive accessory program such as variable speed control, accessory phase shifting device (for filming from the monitor), remote release, etc.
- Built-in CdS follow-pointer exposure meter (automatic exposure control optional) 13–28 DIN, 25–50 fps, with indication of ± 2 stops in the viewfinder.
- Camera stops with the mirror shutter closed, thus allowing for uninterrupted viewing
- Automatic lens diaphragm with internal release from the camera – therefore focusing is always possible with the lens wide open
- Proven ARRIFLEX bayonet mount opening – enables the use of the complete ARRIFLEX lens program
- Pivoting and tilting handgrip for left- and right-handed operation
- Quiet blimpfree operation for synchronous sound filming
- Spacer gate
- Gelatine filter slot behind the lens
- Integrated plug-in battery
- Accepts time coding system
- Easy-to-service construction through independent optical, mechanical, and electronic modules



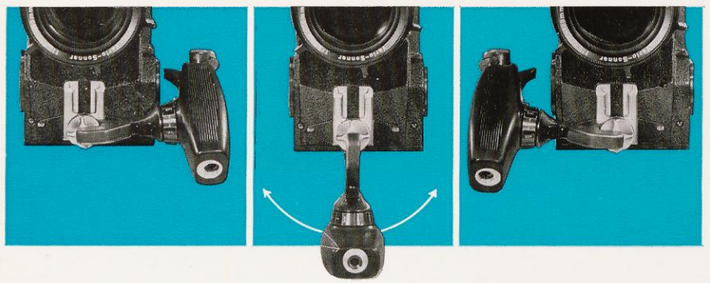
360°



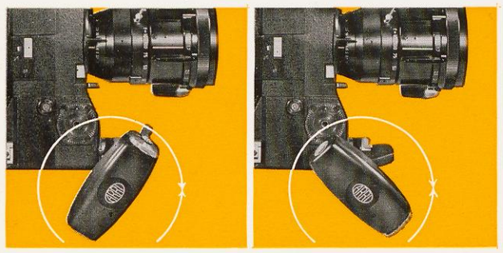
25°



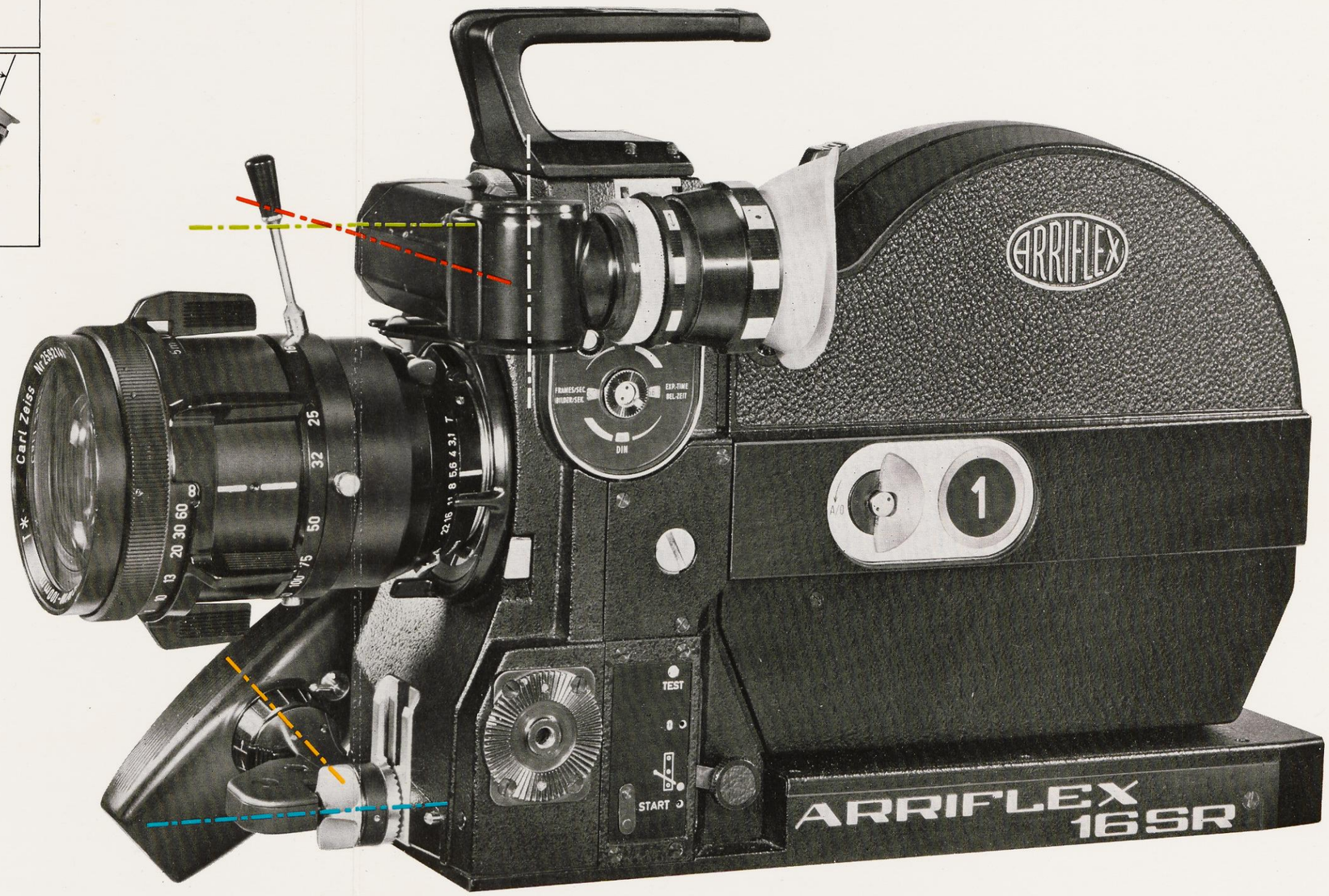
190°



190°



360°



Film width:	16 mm, one-sided or double perforation, B winding
Shutter opening:	180°
Viewfinder magnification:	10-fold
Noise level:	≦ 31 dBA
Drive:	DC motor without commutator Supply voltage 12 V Crystal accuracy 5 x10^{-6}

Battery type:	12 V, 1.8 Ah NC
Magazines:	400 ft (120 m) magazines, coaxial double compartment type, daylight reels can be used

Exposure Control System

Film sensitivity:	13–28 DIN (16 – 500 ASA)
Frame speed:	25 (24) – 50 fps
Indication range:	± 2 f-stops

Approx. Dimensions with 400 ft (120 m) magazine:	Length 11" (285 mm) Width 3¾" (96 mm) Height 8" (205 mm)
Weight of camera without lens:	approx. 12.5 lbs (5.8 kg)

ARRIFLEX 16 SR

The ARRIFLEX 16 SR introduces a new era in professional motion picture filming. New advances in technology led to a revolutionary camera concept which sets new standards in speed of operation, compact design, mobility, and operational comfort.

OPERATION

The ARRIFLEX 16 SR is an extremely compact camera with a level bottom surface. The camera can be operated from the shoulder without tiring. The ARRIFLEX 16 SR is the world's first professional motion picture camera planned for perfect operational symmetry.

Consequently all lens adjusting and camera release functions can be accomplished equally well with the left or the right hand. This also applies to viewfinder observation with the left or the right eye. A centrally arranged viewfinder, pivoting in 3 planes, and a hand grip, adjustable in 2 planes, with camera release button, allow for adaptation to all anatomical conditions and all technical shooting situations – without the need for special accessories.

QUICK-CHANGE MAGAZINES

The ARRIFLEX 16 SR will be supplied with a 400 ft magazine. In the coaxial double-compartment magazine, the film gate is extremely simple and clearly arranged due to the symmetrically located pressure plate. The feed and take-up loops can be externally controlled before mounting the magazine.

VIEWFINDER ASSEMBLY

The most predominant characteristic of the new camera is the central location of the viewfinder along the centre of the camera. The viewfinder tube can be rotated and swivelled in 3 planes with complete image position compensation. The viewfinder image therefore remains upright and correct left-to-right in every eyepiece position. Special advantages of the viewfinder tube arrangement are:

- minimum camera width for transport in the case due to the upright viewfinder position.
- left- or right-eyed viewfinder observation without special accessories
- excellent shoulder position of the camera due to the finder exit at the front of the camera

The new arrangement of the finder allows for compensation between shoulder level and eye level while maintaining a straight eyepiece position.

MOVEMENT AND FILM GATE

Positively controlled multi-joint, pull-down claw and registration pin guarantee reliable film advance and exact image steadiness – independent of film material used and climatic influence.

The film gate is comprised of the aperture plate on the camera side and the guide rails with the pressure plate on the magazine. When the magazine is mounted a spacer channel is formed through which the film runs freely. In the area of the film gate, the film is held absolutely flat in the focal plane by a spring-loaded pressure plate.

DRIVE

A high-performance DC motor without commutator allows, with built-in crystal control, for synchronous sound filming with any tape recorder which is fitted with crystal generator. A warning light is visible in the camera viewfinder when an out of sync condition occurs.

The motor is also equipped for slave operation. Variable frame speeds can be set with an accessory control mechanism.

An electronic stopping device always brings the mirror-shutter into viewing position when the camera is switched off.

THROUGH-THE-LENS EXPOSURE CONTROL SYSTEM + AUTOMATIC EXPOSURE CONTROL

The built-in CdS exposure control system corresponds in principle to the ARRIFLEX 16 BL exposure control system, which is very successful. The concept of this exposure control system represents the ultimate in measuring accuracy in professional filming techniques.

The indication of $\pm$ 2 f-stops in the viewfinder enables the control of exposure within the permissible film contrast range.

On request, the camera can be equipped with an automatic diaphragm control system. Hereby, the signal coming from the exposure meter activates the diaphragm control motor via a servo amplifier.

AUTOMATIC DIAPHRAGM

For the first time an automatic diaphragm for the taking lens with internal camera release has been realized in a professional motion picture camera. Focusing is therefore always done with wide open lens iris. Stopping down to the taking aperture occurs just prior to camera switch-on. The automatic diaphragm is activated either from the camera release button or from the hand grip switch. After stopping the camera the lens iris opens again.

BLIMPFREE NOISE ISOLATION

A noise level of $\leq$ 31 dB (weighted A), required for synchronous sound recording, has been attained by careful selection of materials according to the latest state of the art of sound absorption, and through consequent design of the gear train with a minimum of moving parts.

ARRI

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Printed in West Germany
WA/HD 01 75 45