ARRIFLEX 16 SR3



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The ARRIFLEX 16 SR3 is designed to meet all modern production requirements. With its off-set pl-mount it is easy to change the format from normal 16 to super 16. Equipped with time code, the ARRIFLEX 16 SR3 offers direct access to electronic post production. The bright, high quality video assist gives the possibility of rough OFF-line editing. A manually adjustable mirror shutter and the smooth operation level of 20 dB(A) (+ 2 dB(A)) expand the working possibilities of this universal production camera.

A high speed version is also available.



Format Normal 16 / Super 16

The format change from normal 16 to super 16 is fast and simple. With the off-set design of the pl-mount, the center of the image is precisely adapted to the format required. This guarantees optimum lens performance for super 16.

To convert the universal film gate only a small change is necessary. There is no need for a new film gate, which also leaves the original adjustments untouched.

Fibre optic screens with all common markings and format combinations can be interchanged quickly.



PL-Mount

With the pl-mount (Ø 54 mm) and the unchanged rigid flange focal distance all ARRI lenses can be used. For the16mm lens range with 41 mm diameter steel bayonet, an adapter is available which may remain permanently in the camera even when changing the lens.

Time Code

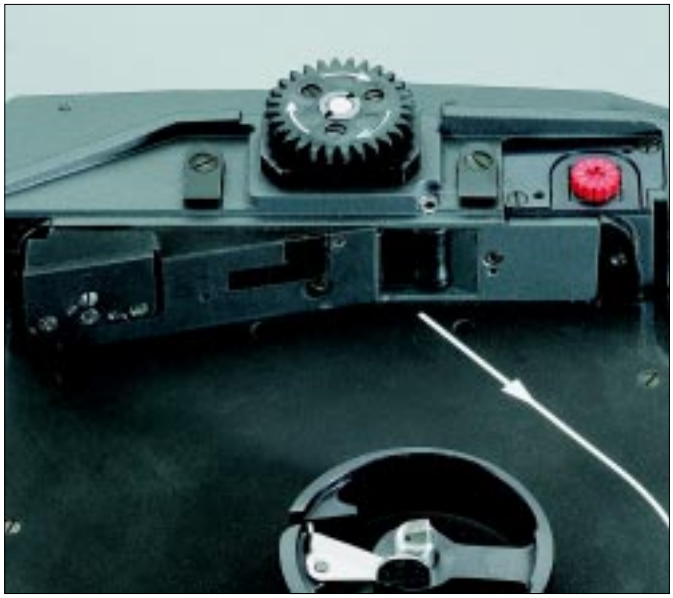
Time code is the key to all modern methods of electronic post production. As a linking element between film and video technology it is integrated in the ARRIFLEX 16 SR3. The recording module is located in the magazine, where also the time code sensitivity is adjusted. The 80-bit time code fully complies with the SMPTE RP 114 standard.

Video assist

The two $^{1}/_{2}$" (inch) colour and black/white CCD video cameras and the anti flicker module AFP-2 provide an especially bright and high quality video assist. The video-optic-transmission is adjustable from normal 16 to super 16, and reproduces the full image of either format on the monitor.

The standard handgrip is fast and easy to interchange with the video-set. Even with the attached video camera, the viewfinder can pivot by 120° across the camera for comfort. Changing the beam splitter for black/white or colour ratio is simple and does not require adjustment.

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Variable mirror shutter

To achive a wide field of production possibilities, it is possible to mechanically adjust the opening sector of the mirror shutter when camera is switched off. The most important opening sectors of 90°, 135°, 144°, 172.8° and 180° are locked and also indicated on the camera´s display. An automatic mirror shutter stop provides undisturbed viewing through the finder and a precise mirror position.

Viewing system with ARRIGLOW

New and especially convenient designed is the viewing system of the ARRIFLEX 16 SR3:

Equipped with ARRIGLOW, a steplessly adjustable illuminated frame in the viewfinder makes filming easier when format markings are difficult to see in low light situations.

Warning indications for asynchronous camera speed, film end and low battery are integrated in the finder. The finder centre can be adjusted to the required format (normal 16 or super 16). A switchable magnification is available in the viewfinder extension.

Even with the video camera attached, the viewfinder can now pivot by 120° from the left to the right camera side. Without video assist, pivoting of 190° is possible. The finder is rotatable by 360° parallel to the body and can be swung away by 25°.

The viewfinder provides automatic upright images at all times. The image can also be manually orientated.



Control panel with LCD-display

A large LCD-display on the left camera side clearly shows information of all adjusted settings. Below the display, a control panel has been integrated offering simple and precise access to the most essential camera functions.
Adjustable are:

- frame rates from 5 to 75 fps (HS version 10 to 150 fps),
- film counter (switchable from meter to feet),
- display of: the opening sector of the mirror shutter,
- time code user bits, time code sensitivity readout,
- battery voltage, with warning indication of low battery (BAT),
- film end (END) and asynchronous camera speed (ASY).

Optionally most functions can be controlled external via the CCU-1 (Camera Control Unit).

Magazines

Coaxial magazines are available with time code recording module. The magazines are mechanically linked to the camera.

Existing 16 SR II magazines without time code recording can also be used. On request SR3 magazines are available without time code recording module.

System compatibility

The ARRIFLEX 16 SR3's interface provides full system compatibility with a wide range of accessory. The ARRIFLEX 535´s proven accessory range can be connected, i. e. ESU-1 (external synchronizing unit), MCL (master clock), RU-1 (remote unit), RS-3 (4) (remote switch), HE-3 (heatable eyecup), camera handgrip, CCU-1 (camera control unit), AFP-2 (anti-flicker processor).

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Technical data

Noise level	20 dB(A) + 2 dB(A); HS version 27 dB(A) + 2 dB(A)
Shutter opening sector	180°, 172.8°, 144°, 135°, 90°
Lens mount	Ø 54 mm pl-mount, retrofit to super 16
Viewfinder magnification	10x (10/17-times with viewfinder extension)
Filming speeds	5 to 75 fps (crystal accurate to 0.001 fps) HS model 10 - 150 fps
Power supply	24 V
Temperature range	-20° to +50°C
Dimensions	L 264mm W 172 mm H 195 mm (viewfinder in horizontal position) L 264 mm W 100 mm H 298 mm (viewfinder in vertical position)
Weight	app. 7 kg (15.4 lbs), with loaded 400 ft magazine and on-board battery 24V/0.7 Ah
Exposure meter	TTL-silicon, 13-31 DIN (16 to 1000 ASA) working range in viewfinder ± 2 t-stops
Video assist	$^1/_2$" (inch) CCD video camera, b/w or colour, with AFP (anti flicker processor)

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