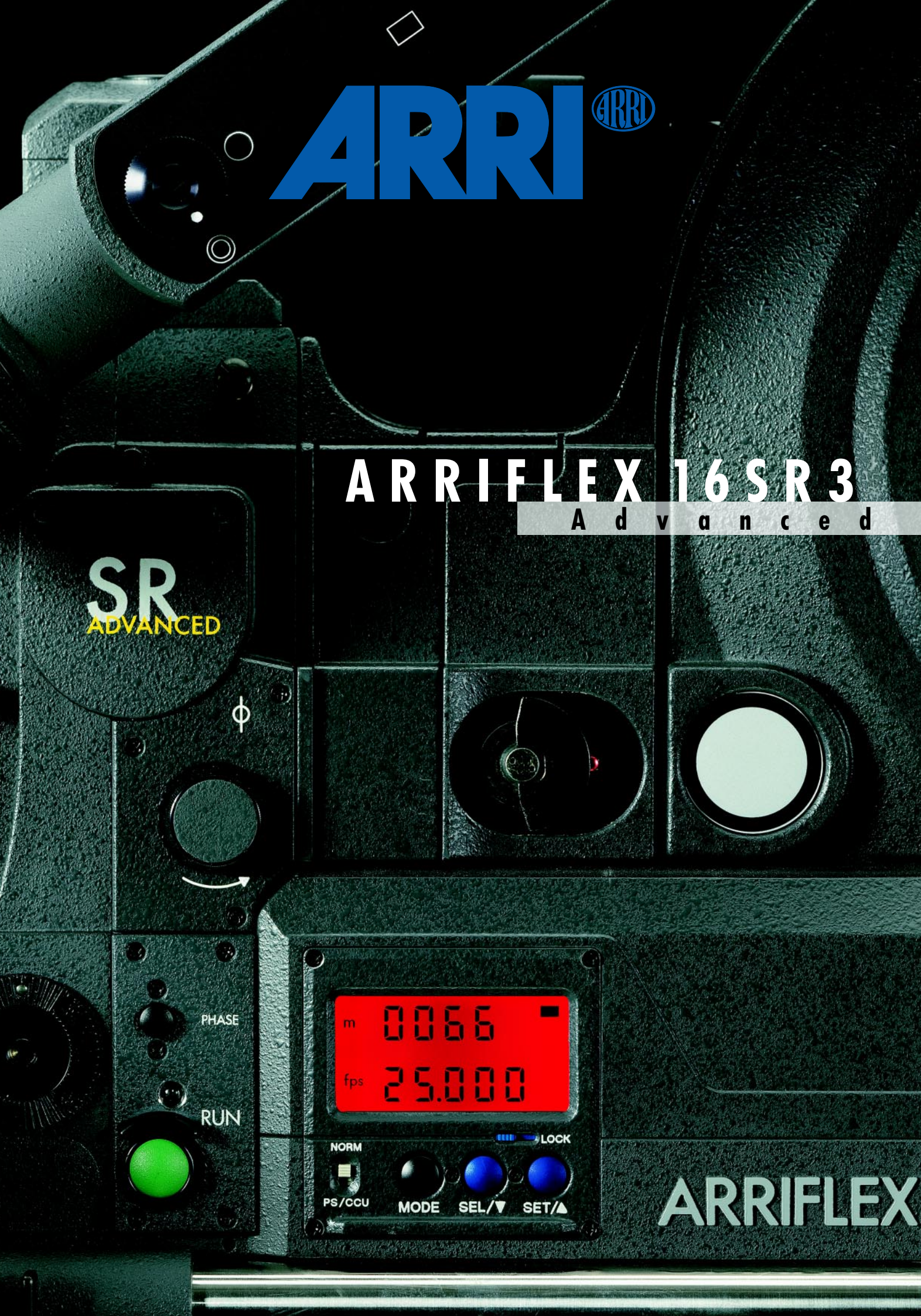

ARRI
ARRIFLEX 16SR3
Advanced
SR
ADVANCED
PHASE
RUN
m 0066
fps 25.000
LOCK
NORM
PS/CCU
MODE
SEL/▼
SET/▲
ARRIFLEX

1 Brighter Viewing System with ARRIGLOW
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1 Brighter Viewing System with ARRIGLOW

New and especially convenient designed is the viewing system of the ARRIFLEX 16 SR 3 Advanced:

Leaving out the exposure meter and utilizing a specifically designed mirror for the ARRIGLOW resulted in a dramatic gain in viewfinder brightness, which was enhanced by $^{3}/_{4}$ of a f-stop or by some 70%.

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 integrated video system attached, the viewfinder can pivot from the left to the right camera side. 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.



IVS – Integrated Video System High Speed – High Resolution – Flicker Free

As with the ARRIFLEX 435 the new IVS-color video assist for the ARRIFLEX 16 SR 3 Advanced becomes an integral part of the setup. Also the number of cables has been reduced to a minimum: just one cable from the camera to the power supply and the usual connector to the recorder or monitor are necessary.

The IVS consists of two components: a video electronic module and a CCD-module which is available in PAL and NTSC versions and is equipped with interchangeable optics for Super and Normal 16 formats. These extremely fast optics and a highly sensitive CCD-chip ensure an excellent color video assist image in editing quality, even in difficult lighting conditions. The effective sensitivity corresponds to 4000 ASA. Even with the most sensitive film stocks, sufficient reserves are available.

The high resolution image quality, which surpasses that of any add-on system, was achieved by specifically designed optics, each an integral part of the camera's viewfinder system.

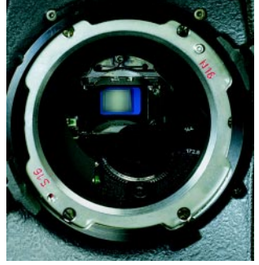
Through the digital image storage, the video camera can be synchronized to the running speed of the film camera. From 5 fps on the system is completely flicker-free.

Additionally the IVS offers a particular user comfort: format markings can be electronically inserted into the video image and therefore remain clearly visible even in low lighting conditions. The area outside the format marking can be darkened electronically to better emphasize the image area. In the same way Time-Code and camera status indicators such as "Standby/Run" can be directly inserted into the video image.

New 800 ft Magazine The new 800 ft quick-change coaxial magazine offers twice the running ttime of the standard magazine. The likelihood of catching that decisive animal shot is higher, the number of disturbing magazine changes during interviews lower. And on feature films, the longer running time increases efficiency with fewer short-ends.
Despite the higher capacity, it weighs only about a kilo more than the standard magazine. The magazine is designed for the standard frequency range up to 75fps. Through the specially designed noise insulation, the camera package remains as quiet as with the standard magazine. The magazine is optionally available with the recording unit for SMPTE Time-Code. A motorized version for camera speeds up to 150 fps is in preparation.
The standard coaxial magazines are available with or without time code recording module. Existing 16 SR II magazines without time code recording can also be used.

3





4

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.

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 is 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).

5



6 Variable Mirror Shutter The opening sector of the mirror shutter can be adjusted mechanically when camera is switched off. The most important opening sectors of 45°, 90°, 135°, 144°, 172.8° and 180° are locked and can also be indicated on the camera´s display. An automatic mirror shutter stop provides undisturbed viewing through the finder and a precise mirror position.

7 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 SR 3 Advanced. 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.

8 System Compatibility The ARRIFLEX 16 SR 3 Advanced´s interface provides full system compatibility with a wide range of accessory. The ARRIFLEX 435 and 535 B´s proven accessory range can be connected.

ARRIFLEX 16 SR 3
Advanced

New designed Film-Guide The new designed film-guide with sapphire-rollers on both sides reduces filmdust development and enhances the image steadiness dramatically in telecine transfer.



ARRIFLEX 16 SR 3 Advanced The ARRIFLEX 16 SR 3 Advanced is designed to meet all modern production requirements and was further optimized for important applications. The viewfinder was enhanced to provide an image that is by some 70% brighter than before. The new designed film-guide with sapphire-rollers on both sides reduces filmdust development and enhances the image steadiness dramatically in telecine transfer. The new Integrated Video System IVS offers maximum video quality and ease of operation: it can be attached to camera to be an integrated part in the setup without extensive cabling.

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 16SR 3 Advanced offers direct access to electronic post production. 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.



9 Technical Data

Technical data are subject to change without notice. Ident-No. K5.43544.0



IVS

Weight	approx. 600 g
Power consumption	approx. 8 W
Power supply	from the camera
Input	Gen-Lock
Outputs	2 x composite outputs with and without data Y/C optionally with and without data

	Standard Version	High Speed Version
Noise level	20 dB(A) + 2 dB(A);	27 dB(A) + 2 dB(A)
Shutter opening sector	180°, 172,8°, 144°, 135°, 90°, 45°	180°, 172,8°, 144°, 135°, 90°, 45°
Lens mount	Ø 54 mm pl-mount, retrofit to super 16	Ø 54 mm pl-mount, retrofit to super 16
Viewfinder magnification	10 x (10/17 times with viewfinder extension)	10 x (10/17 times with viewfinder extension)
Filming speeds	5 to 75 fps (crystal accurate to 0.001fps)	10 to 150 fps
Power supply	24 V	24 V
Temperature range	–20° to +50°C	–20° to +50°C
Dimensions	L 264 mm B 172 mm H 195 mm (viewfinder in horizontal position) L 264 mm B 100 mm H 298 mm (viewfinder in vertical position)	L 264 mm B 172 mm H 195 mm (viewfinder in horizontal position) L 264 mm B 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 24 V	app. 7 kg (15.4 lbs), with loaded 400 ft magazine and on-board battery 24 V

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