

## ARRIFLEX D-21 HD

### Main Features:

- Optical viewfinder
- ARRI Imaging Technology
- Cinematic image quality
- Mscope anamorphic
- 4:3 format sensor
- 35 format film lenses & depth of field
- 35 format film accessories
- Variable speed
- Simple operation
- HD output
- Modular architecture

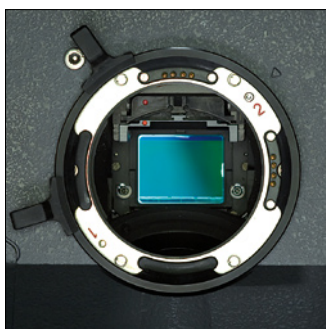


The ARRIFLEX D-21 HD is a film style digital camera that combines familiar high-end film style functionality, handling and creative options with the immediacy and economy of digital acquisition. As the top of the line HD camera from ARRI, the market leader in professional imaging, it is equipped with a number of unique features: an optical viewfinder, the Mscope anamorphic output, a 4:3 format sensor, simple operation and an unequalled film-like image quality.

The D-21 HD's bright optical viewfinder has zero delay, works without power and shows an image area outside the primary image. Through ARRI Imaging Technology (AIT), the D-21 HD produces brilliant images with a cinematic look and feel, a high dynamic range, high contrast and the most film-like motion and color reproduction of any digital motion picture camera.

The camera's single, Super 35-sized CMOS sensor exhibits the same cinematic depth of field as 35 mm film. The industry standard PL lens mount accepts the same vast variety of prime, zoom and specialty film lenses used on 35 mm film cameras. Since the D-21 and the D-21 HD are the only digital high-end production cameras with a 4:3 aspect ratio sensor, they easily accommodate all image formats, including anamorphic 2.40:1. The D-21 HD can record the anamorphic image in the new and innovative Mscope mode, utilizing a standard HD workflow.

Further film style features include variable frame rates from 1 to 30 fps, exposure compensated speed ramps, compatibility with ARRI film style accessories, simple to use controls and the robust construction and ergonomic design for which ARRI cameras are famous. HD and Mscope Mode comprise a standard 16:9 uncompressed 10 bit/pixel HD signal. The camera's modular design allows upgrading when advances in sensor, electronics or firmware technology become available.



## ARRIFLEX D-21 HD – Technical Data

Camera type: 35 format film style HD camera with an optical viewfinder

### Frame rate:

Mode	Setting	Camera Fps
HD Mode	HD422 (16:9)	1 - 30
	HD444 (16:9)	1 - 30
Mscope™	Mscope™ HD422 (4:3)	1 - 25

All frame rates are crystal controlled and can be set with 0.001 fps precision.

Frame rates other than the standard HD video frame rates of 23.976 PsF, 24 PsF, 25 PsF, 29.97 PsF and 30 PsF can be achieved with a recorder that can interpret the Variframe Flag.

Exposure compensated speed ramps are supported by the electronic mirror shutter.

Aperture: 23.760 x 13.365 mm/0.9354" x 0.5262" in HD Mode  
23.760 x 17.820 mm/0.9354" x 0.7016" in Mscope™

Lens mount: 54 mm PL, adjusted for Super 35, with Lens Data System (LDS) contacts, Flange focal depth 52 mm nominal

Display: Camera display on left side with individual buttons for: camera RUN, PHASE (electronic inching & mirror rotation), LOCK, MODE, SEL and SET. Allows adjusting beeper volume, beeper at start and/or stop, enable/disable mirror shutter, mirror shutter angle, frame counter.

Video Menu over composite video output for control of operational parameters: HD Mode, frame rates, white balance and color matrix, signal output range, contrast characteristic and sensitivity.

Shutter: Spinning, electronically adjustable reflex mirror shutter.  
Adjustable to 11.2°, 22.5°, 30°, 45°, 60°, 75°, 90°, 105°, 120°, 135°, 144°, 150°, 172.8° and 180°

Viewfinder: Optical reflex viewfinder with interchangeable ground glass. Spherical or universal (adjustable to spherical or anamorphic) viewfinders available. Viewfinders are adjustable in two axes with automatic or manual image compensation, laterally extendable for left eye operation and show illuminated frame lines (ARRIGLOW, adjustable in brightness). Optional medium or long finder extender including magnifier. Optional heated eyecup.

Video assist: SD monitoring (PAL/NTSC video downscaled from captured image) with composite video or S-Video outputs

### Signal output:

**HD Mode – HD-SDI (SMPTE 292M):**  
–1920 x 1080 4:2:2 YCbCr 10 bit @ 23.976, 24, 25, 29.97, 30 PsF

**HD Mode – Dual link HD-SDI (SMPTE 372M):\***  
– 1920 x 1080 4:4:4 RGB 10 bit @ 23.976, 24, 25, 29.97, 30 PsF

**Mscope™ – dual link HD-SDI (SMPTE 372M):**  
– 1920 x 1080 4:2:2 YCbCr 10 bit @ 23.976, 24, 25 PsF

Recording: HD recording devices supporting HD-SDI (SMPTE 292M) or dual link HD-SDI (SMPTE 372M)\* signals for HD Mode operation. Optional on-board HD recording using solid-state memory recorder Flash Mag.

Connections: 1x dual link HD-SDI out, 2x composite video out (CVBS), 1x S-Video out (Y/C), 1x power in (BAT), 1x 12 V accessory power out (Fisher 11-pin), 1x 24 V accessory power out (RS), 1x lens data display (LDD), 2x lens control system bus (LCS), 1x accessory interface (ACC), 1x camera control unit (CCU), 1 each focus, iris, zoom for lens motors.

Power: 24V DC (acceptable voltage range: 20.5 to 36 V DC)

Power consumption: 2.1 A @ 24 fps, 1.9 A in Standby

Sound: Less than 20 dB(A) @ 24 fps

Dimensions: Length: 39 cm/15.35"  
Width (viewfinder left): 27 cm/10.83"  
Height with handle: 30 cm/11.81"  
Height without handle: 23 cm/9.06"

Weight (without lens): Body only: 8.5 kg/18.8 lbs  
Body and viewfinder: 10.8 kg/23.8 lbs

Accessories: Accepts the whole range of ARRI matte boxes (15 or 19 mm rods), follow focus and ARRI electronic accessories, Lens Data System (LDS), Wireless Remote System (WRS), Wireless Remote Control WRC-2, Iris Control Unit for speed/iris ramps (ICU-1), Remote On/Off Switch (RS-4), External Synchronization Unit (ESU-1). Specifically for ARRIFLEX D-21/D-21 HD: Low mode support set for Steadicam operation or underslung use and top-mounting of accessories without bridge plate, Flash Mag Mounting Adapter (FMA-1), Fibre Unit and Fibre Remote for an optical link to the recorder.

Miscellaneous: Extra attachment points for rigging

\* available with software packet 1.16