

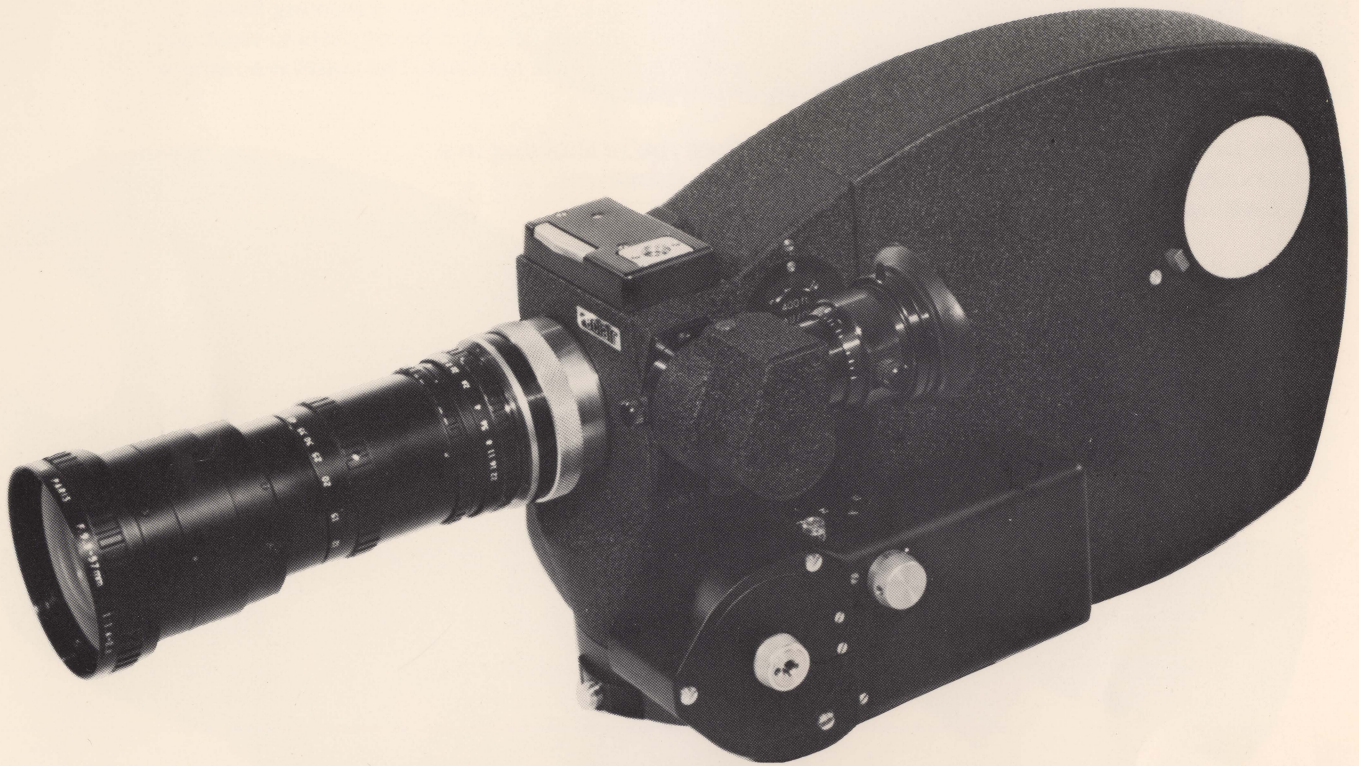
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ecam **eclair**
ECAM COMPANY

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Exclusive U.S. Importers and Distributors of French Eclair® Motion Picture Cameras

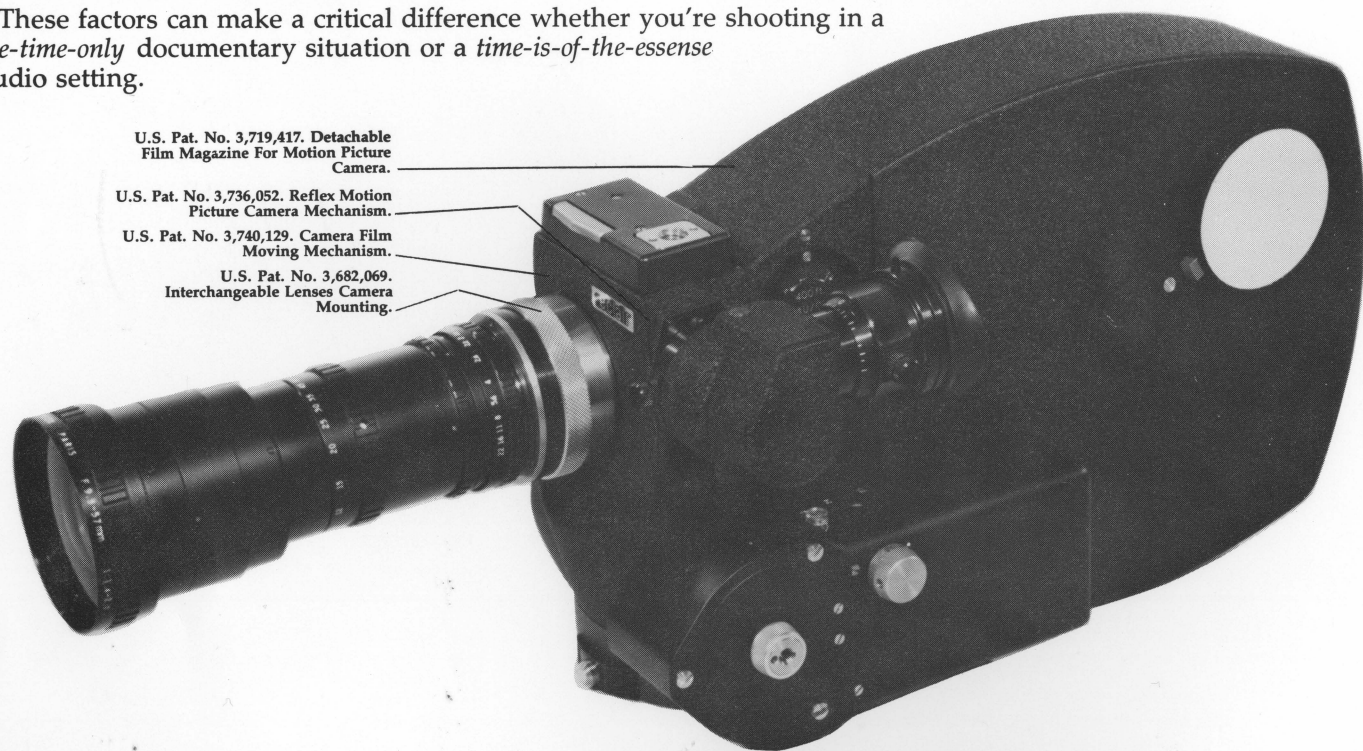


The French Eclair ACL

The French Eclair ACL is a precision, handcrafted, professional 16mm camera that has revolutionized the making of motion pictures. From the beginning, the ACL was designed to incorporate many of the successful features of the world-famous Eclair NPR. But the ACL is even smaller and lighter. With a 200 ft. magazine and without a lens, the ACL measures 11½ inches from front to back and weighs 7 pounds 7 ounces. That makes it half the size of its competitors. And one-third the weight. Perhaps just as important is how the weight is distributed, and how the camera fits your body. The ACL's instant snap-on coaxial magazine is mounted on the back of the camera, so there's practically no weight to support in front of you. The ACL is actually shoulder-rested instead of hand-held. In this position, the viewfinder is right at eye level, with the controls at your fingertips. And the ACL's profile is lower than your head. So it will fit anywhere you will.

The same design principles that allow the ACL to be so small and lightweight also make it quiet and reliable. The ACL achieves this with maximum simplicity because of a minimum of moving parts. So there are fewer parts to generate noise. Fewer parts to create friction. And fewer parts to wear out. With fewer sources of noise, the ACL requires less noise suppressant material. The result is a camera high in strength and reliability, and low in weight and noise.

These factors can make a critical difference whether you're shooting in a *one-time-only* documentary situation or a *time-is-of-the-essense* studio setting.



U.S. Pat. No. 3,719,417. Detachable Film Magazine For Motion Picture Camera.

U.S. Pat. No. 3,736,052. Reflex Motion Picture Camera Mechanism.

U.S. Pat. No. 3,740,129. Camera Film Moving Mechanism.

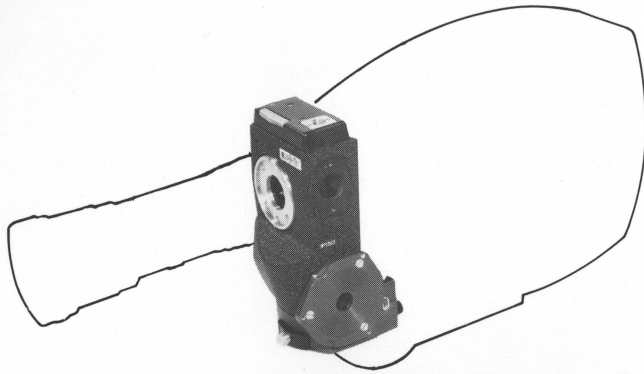
U.S. Pat. No. 3,682,069. Interchangeable Lenses Camera Mounting.

The simplicity of the ACL's design is innovative enough to warrant four separate U.S. and International patents.

There is one patent on the film pull-down claw and another on the reflex mechanism. These two features make the ACL quieter and simpler. The ACL's wedge-shaped claw slides quietly into the film perforation and makes contact with its lower edge *before* pull-down begins. So unlike other cameras, there is no chatter from the claw hitting the lower edge of the film as it descends. The ACL's reflex mechanism consists in part of an oscillating mirror working in conjunction with a high-efficiency focal plane rotating shutter. This eliminates the whirl caused by a rotating mirror shutter. Three feet from the film plane, the ACL's noise level is 30 dBs. So for all practical purposes, it's noiseless.

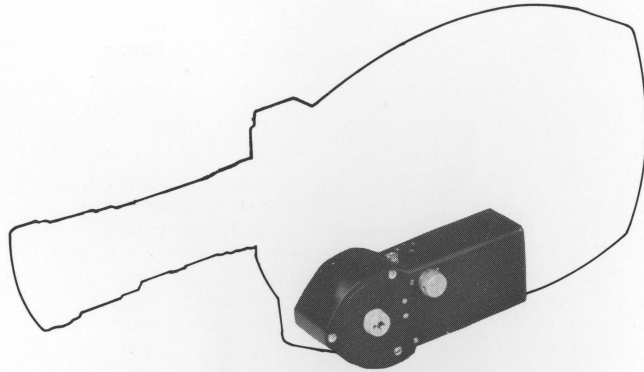
There is also a patent on the interchangeable lens mount system. This feature allows you to use lenses with any of the well-known professional mounts. There is also the added versatility of a "C" mount. So, instead of mere adaptors, the ACL has a true universal lens mount system.

Finally, there is a patent on the instant snap-on coaxial magazine. This design makes it simpler, quieter and more reliable. And the magazine can be changed in less than five seconds, without touching the film.



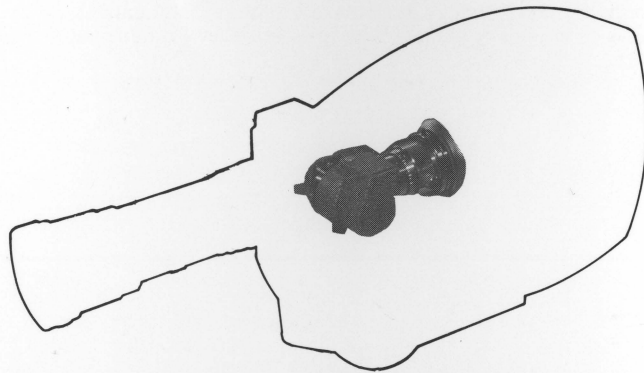
The Camera Body

The ACL's camera body is ingenious in its simplicity. It contains the movement, the patented pull-down claw and the patented reflex mechanism. This mechanism consists of a hard chromed steel aperture plate, a rotating focal plane shutter with an opening of 175° and an oscillating mirror that allows brilliant reflex viewing through the finder.



The Crystal Controlled Motor

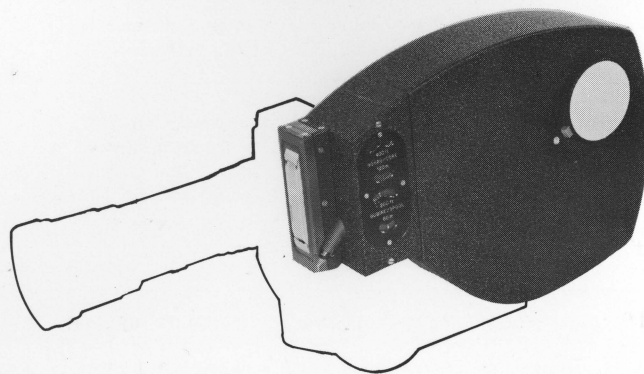
The ACL boasts a heavy-duty, variable speed, crystal control motor that lets you film at speeds of 8, 12, 24/25, 50 or 75 frames per second. This allows you the versatility of selecting frame rate to shoot fast and slow motion, as well as normal speed. This is a rugged, reliable Hall effect, brushless motor of incredible accuracy. Within 400 ft. of continuous running, the maximum discrepancy between picture and sound is 1/12th of a frame. This crystal control accuracy is the key to being able to shoot professional sync sound anywhere with no connection between the camera and the tape recorder. And the ACL maintains this accuracy over a wide temperature range.



The Viewfinder

The ACL viewfinder rotates through 360°, parallel to the camera's side, with a 360° rotating image. In addition, the viewfinder is adjustable laterally. It can swing up vertically for low angle shooting, and even backwards for candid shots.

The eyepiece is adjustable through plus or minus five diopters and can be locked in any position. And there is an eyepiece shutter to keep out stray light when running the camera with your eye away from the viewfinder. The groundglass is at the film aperture instead of at the eyepiece. So the viewfinder's optics are simpler and transmit more light. This combined with improved glass on the magnesium surface of the reflex mirror and the fine grain of the groundglass provide brilliant viewing. The groundglass is engraved with TV safe cutoff, as well as the standard 1:1.33 16mm aperture. In addition, there is extra viewing area on the groundglass to allow you to see what is offscreen. So you can see a microphone or the edge of a set before it enters the shot.



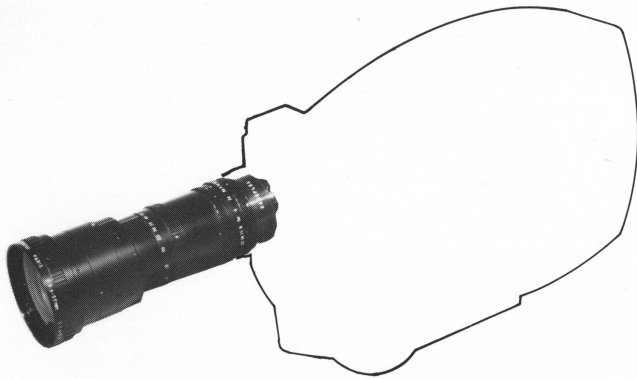
The Instant Snap-on Coaxial Magazine

The ACL's patented coaxial magazine features a proven drive and takeup system to insure unquestioned reliability. It is available in both 200 and 400 ft. versions. Both are designed to accept daylight loading spools or core loads. The raw stock can be double perforation film, wound with the emulsion in or out; or single perf film, emulsion in (B winding) or emulsion out (A winding).

The loading of the magazine is accomplished with a minimum of handling in the dark. The film is simply placed into position inside the magazine and the end of the film is pushed into a light trap. There are no sprockets or capstans. Everything else is done in daylight. So there is less changing bag time than any other camera on the market.

Once loaded, magazines can be changed in less than five seconds, without ever touching the film again.

The 400 ft. magazine features a double counter system indicating the amount of unexposed footage remaining in both feet and meters.



Optics

The ACL's patented universal lens mount system consists of a threaded "C" mount receptacle (mechanical back focal distance of 17.52 mm) set flush into the camera body face, surrounded by a collar of raised threads of larger diameter. Camera mounts with a stainless steel collar can quickly be locked into position on the raised threads. You can use any of the well-known professional lenses with accessory camera mounts that fit the raised threads. Including, of course, the heavy-duty Eclair CA-1 bayonet lens mount, (mechanical back focal distance of 48 mm) which is supplied standard with the camera.

These are no mere adaptors. Lenses are rigidly and precisely held against the camera face. So you can use zooms, or other long or heavy lenses without any other lens supports.

A slot for gelatine filters is set into the camera body between the lens mount and the reflex mirror. So there is no need for separate filters for each lens, and you can see the filter through the viewfinder. Three filter holders are provided, with storage space for the extras in the handgrip.



LED 7

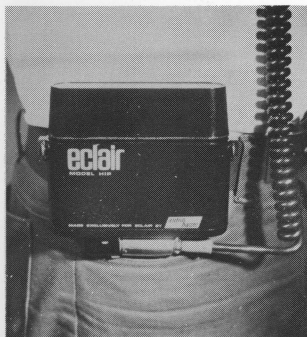
The ACL features an exclusive through-the-lens light exposure monitoring device called LED 7. The LED 7 system incorporates seven light emitting diodes in the viewfinder which light up to alert you instantly to any deviation in exposure level from a given setting. With this system you first measure light level with a hand-held meter and set the lens aperture accordingly. Then the LED 7 is adjusted so the center diode is lit. If there is any deviation in exposure level, the diodes above or below center will activate as the light levels either increase or decrease. Each successive diode represents half an f-stop. This allows you to readjust the aperture setting to compensate for changes in light, without your eye leaving the viewfinder. You simply adjust the aperture until the center diode is again lit, and you know that the exposure level is the same as you originally chose.

The system is always temperature compensated (-25°C to +60°C).

Accessories

The Eclair ACL system features a complete line of accessories to make the camera adaptable to almost any shooting situation. The following are a representative sample. But since new accessories are constantly being added, consult your Eclair dealer or the Ecam Company about any accessory not listed.

LENSES — The ACL's patented universal lens mount system lets you use most popular lenses in any of the well-known professional mounts, including the heavy-duty Eclair CA-1. You can choose from a wide variety of primes and zooms, including Angenieux, Zeiss, Schneider, Cook, Nikon, Canon and Kinoptik.



BATTERIES — There is a lightweight Mini-Module battery pack available, featuring a 12 volt DC nickel cadmium sealed battery rated at 2.0 amperes per hour. This is enough power to drive twelve 200 ft. film loads on a single charge.

Recharging takes only two hours. And the charger itself weighs less than two pounds and works on 110 volt or 220 volt AC power.

PILOTONE MODULE — This accessory supplies bloop and 50 Hz, 60 Hz or 100 Hz sync reference signal to the sync pulse head of a tape recorder not equipped with crystal control. It can run on its own battery, or be attached to the ACL's battery or to the tape recorder's.

ERECT-IMAGE VIEWFINDER — The Angenieux dove prism 360° erect-image viewfinder is adaptable to the ACL by using the adaptor block (#2702). This superior viewfinder is the same one used on the Eclair NPR.

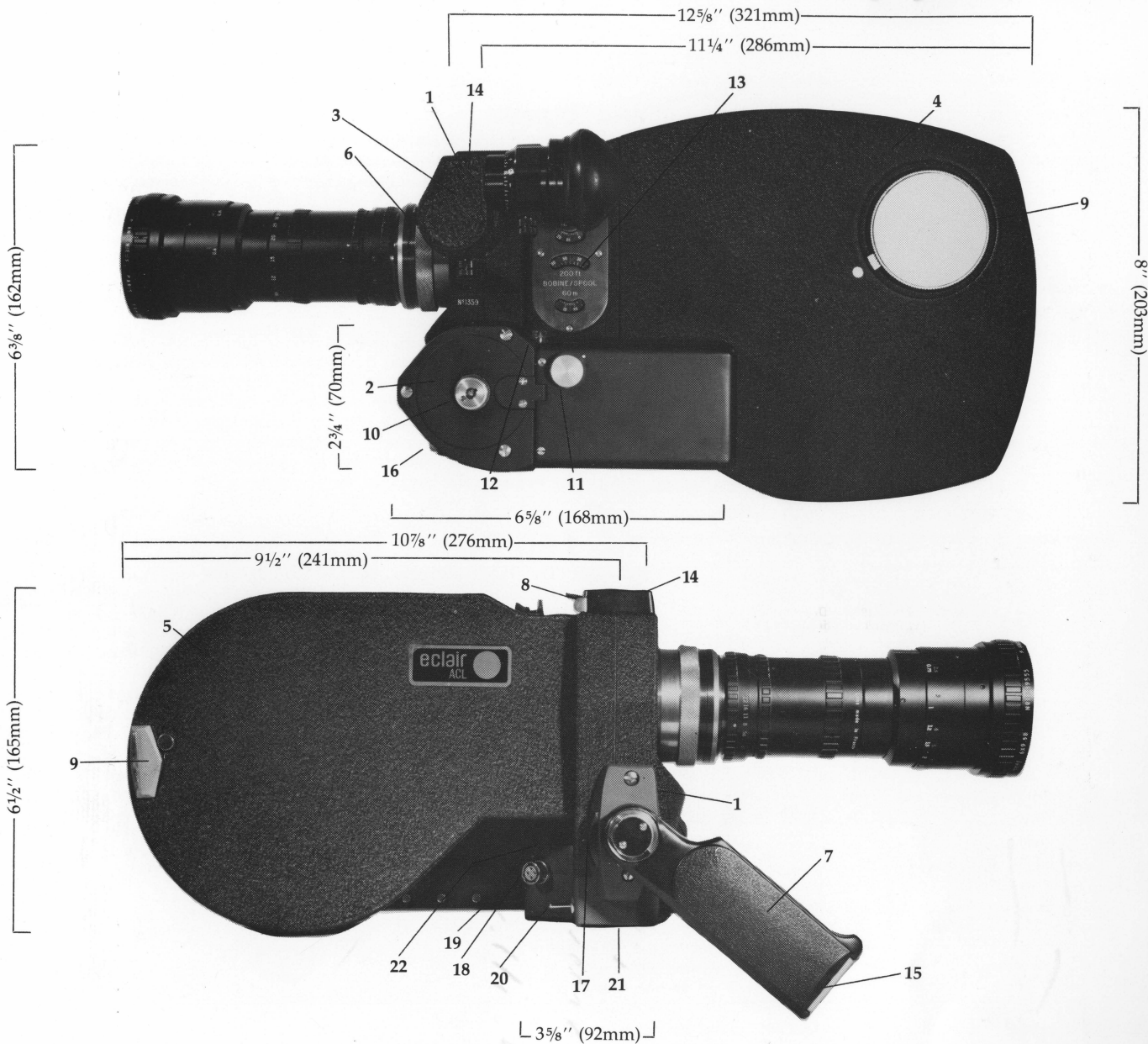
DEEP FLOTATION HARD CASE — A Halliburton lightweight aluminum carrying case is available, featuring custom die-cut foam inserts.

DATA RINGS — Data rings for focus and aperture opening indications are available for Angenieux zoom lenses.

SOUND BARNEY — The ACL can be equipped with a custom Sound Barney to additionally reduce camera noise without adding appreciably to its weight.

HANDGRIP — The ACL handgrip is mounted beneath the camera body. It comes with two spare gel filter holders set into it.

GEL FILTER HOLDERS — Filter holders in addition to the three that come as standard equipment are available as accessories.



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|---------------------------------|-------------------------------|-----------------------------|------------------------------------|
| 1. Camera Body | 7. Adjustable Handgrip | 13. Footage Counter | 19. Fuse for LED-7 |
| 2. Motor | 8. Magazine Release | 14. Gel Filter Holder | 20. Bloop Light Switch |
| 3. Viewfinder | 9. Magazine Lid Lock | 15. Spare Gel Filter Holder | 21. 3/8" x 16 T.P.I. Tripod Socket |
| 4. 400' Magazine | 10. Inching Knob | 16. Front On/Off Switch | 22. Setting Control for LED-7 |
| 5. 200' Magazine | 11. Speed Selector | 17. Remote On/Off Switch | |
| 6. Interchangeable Camera Mount | 12. Out-of-Sync Warning Light | 18. Power Connector | |

ACL Specifications

SIZE (Height x Width x Length) and WEIGHT:

CAMERA BODY: 6 3/8" x 3 3/8" x 3 3/8" (162mm x 86mm x 92mm); 3.3 lbs. (1.5kg)
 CAMERA with viewfinder (extended), motor and 400' magazine: 8" x 7 3/4" x 12 1/2" (203mm x 197mm x 321mm); 11 lbs. (5kg)
 CAMERA with viewfinder, motor and 200' magazine: 6 1/2" x 6" x 10 7/8" (165mm x 168mm x 276mm); 9 lbs. (4kg)
 MOTOR: 2 3/4" x 1 3/4" x 6 5/8" (70mm x 45mm x 168mm); 2 lbs. (.9kg)
 400' MAGAZINE: 8" x 3" x 11 1/4" (203mm x 76mm x 286mm); 6 lbs. (2.7kg)
 200' MAGAZINE: 6 1/2" x 2 1/2" x 9 1/2" (165mm x 64mm x 241mm); 4 lbs. (1.8kg)

CAMERA:

FILM: 16mm — double perf or single perf (A winding or B winding) on 2" core or daylight spool
 FILM TRANSPORT: claw movement controlled by an eccentric and a fixed cam and positively positioned by a counter cam
 REFLEX VIEWING: oscillating mirror traveling at half camera speed, reflected onto ground glass with 16mm full aperture and TV safe action area markings
 SHUTTER: 175° rotating focal plane shutter with fixed opening; shutter speed 1/50 second at 24 fps
 NOISE LEVEL: 30 dB
 FILTER SYSTEM: gel filter holder located on a plane 1/2" (12.7mm) in front of aperture

MOTOR:

TYPE: brushless, Hall effect, crystal controlled, variable speed
 POWER CONSUMPTION: less than 1.3 amps at 12 volts (68°F or 20°C) at 24 fps; film footage driving capacity remains relatively constant at all speeds
 FILMING SPEEDS: 8, 12, 24, 25, 50, and 75 fps
 OUT-OF-SYNC WARNING LIGHT: detects sync accuracy to ±8 ppm

MAGAZINES:

TYPE: 200' or 400' single sprocket belt drive; coaxial; snap-on; instant change
 FOOTAGE COUNTER: Indicates unexposed film in both feet and meters

VIEWFINDER: 360° rotating eyepiece and 360° rotating image; ±5 diopter adjustments; iris closure ring; eyepiece extends 3/8" for viewing comfort (Angenieux dove prism orientable viewfinder with constantly erect image also available).

LED 7 EXPOSURE GUIDE:

SENSING ELEMENT: rapid response CdS photo-resistant cell
 SENSITIVITY RANGE: 12 to 800 ASA
 TYPE OF MEASUREMENT: behind the lens (T.T.L.); semi-spot (e.g. 4mm diameter — 10° acceptance with 25mm lens)
 AREA OF MEASUREMENT: center 30% of viewing area
 DISPLAY: seven light emitting diodes representing ±1 1/2 stops in 1/2 stop increments

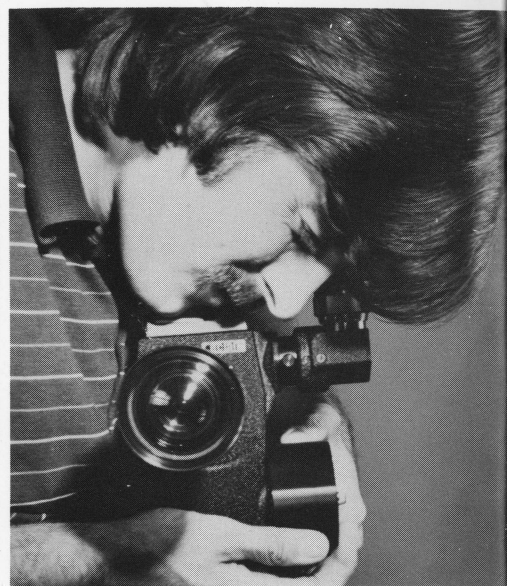
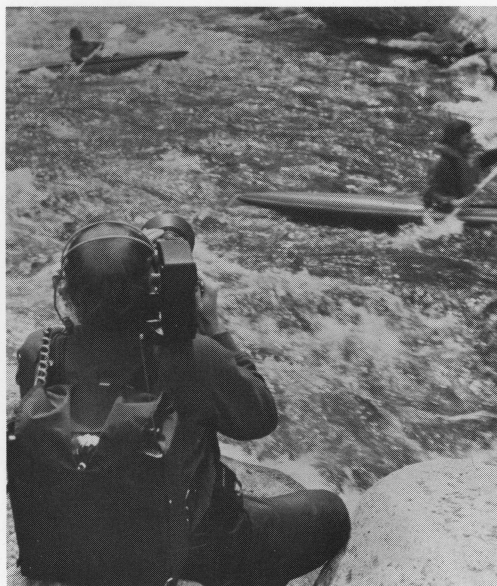
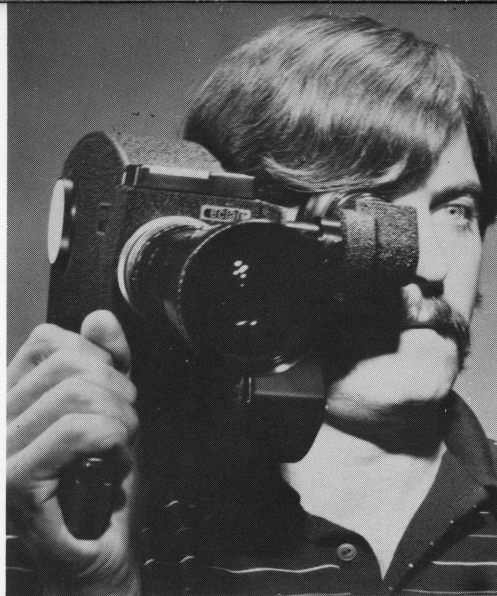
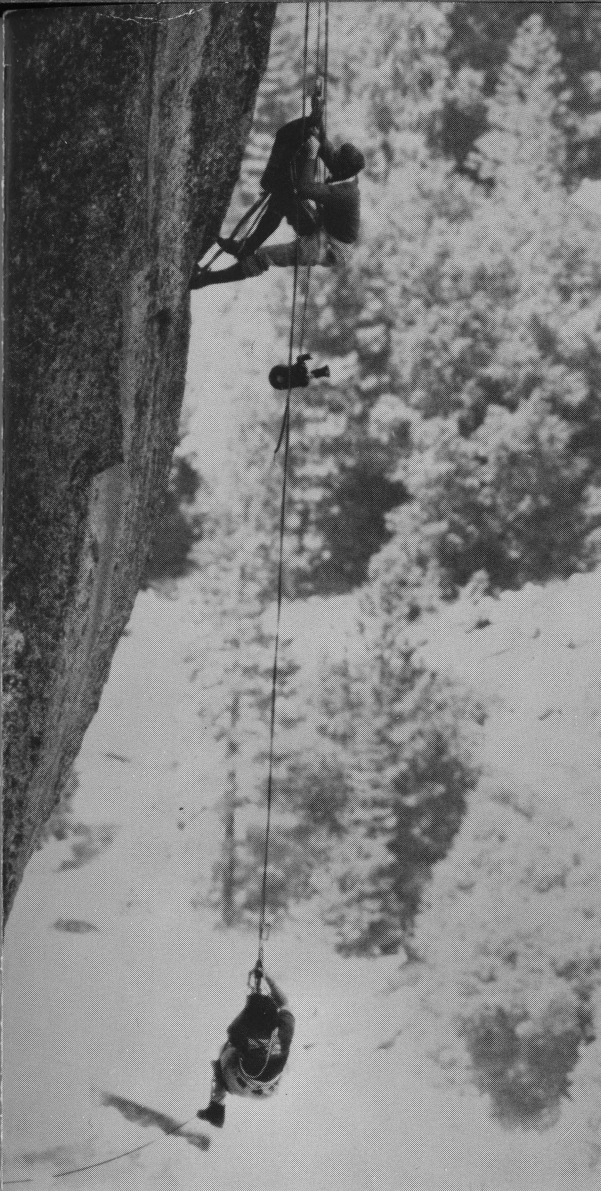
CA-1 CAMERA MOUNT: flange focal distance 48mm

"C" MOUNT: flange focal distance 17.52mm

OPERATING TEMPERATURE RANGE: -13°F to 140°F (-25°C to 60°C); special winterizing available

POWER CONNECTOR: Jaeger 4-pin Female

WIRING OF PINS: 1) ground; 2) bloop (.3 second fog; .3 second 1000Hz 8 volt signal); 3) 12 volts output to pilotone module; 4) 12 volts input



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