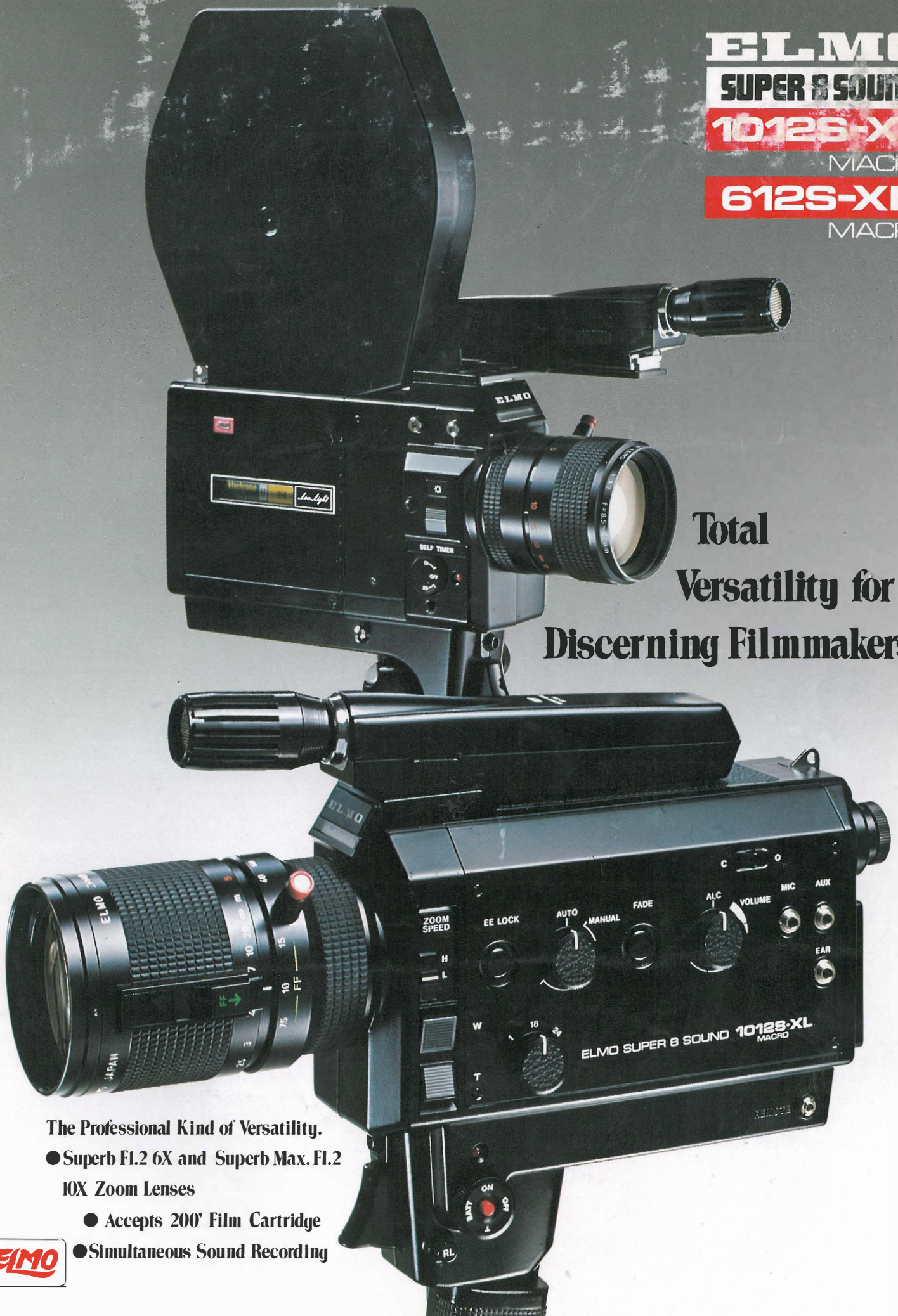


**ELMO**  
**SUPER 8 SOUND**  
**1012S-XL**  
MACRO  
**612S-XL**  
MACRO

**Total  
Versatility for  
Discerning Filmmakers.**



**The Professional Kind of Versatility.**

- Superb F1.2 6X and Superb Max. F1.2 10X Zoom Lenses
- Accepts 200' Film Cartridge
- Simultaneous Sound Recording





# More Than Meets the Eye. All the More to Please the Ear. Elmo's High-Performance 612S-XL Macro and 1012S-XL Macro.

## Optimum Function and Performance



With the sensational debut of the 612S-XL Macro and 1012S-XL Macro Super 8 sound movie cameras, Elmo has once again reaffirmed its world-renowned reputation as a leading manufacturer of fine home movie cameras and related equipment.

Elmo conceives the Super 8 sound movie camera in terms of "function", as an instrument destined for the human hand, with the possibility of becoming an actual extension of the mind and of fulfilling its truest expression.

No matter how many fine features any movie camera may offer, these are absolutely useless unless the camera can be operated with complete freedom and ease,

especially in the unpredictable conditions that are an inevitable part of movie making. Unlike other camera manufacturers who develop their products in the laboratory from formulated criteria of performance, Elmo approached the problem from the point of view of the user, keeping ease of operation always in mind.

The magnificent results can clearly be seen in the 612S-XL Macro and 1012S-XL Macro, two camera masterpieces whose exceptional features respond instantly to diverse creative demands. Every detail speaks of performance that pleases the professional, and a degree of handling ease that is sure to delight

even the newest of beginners. Not the slightest compromise has been made in order to offer you premium quality in both sound and image.

Both of these outstanding Super 8 sound movie cameras feature incredibly bright F1.2 lenses that, in combination with other features, such as wide 220° shutter opening angles and the ability to make the most of fast speed films, enable shooting in dim XL (existing light) conditions. The 612S-XL Macro and 1012S-XL Macro respectively offer 6X and 10X power zooms. In addition, they accept large capacity 200' film cartridges in order to give you everything you require for truly creative Super 8 sound movie making. Their simultaneous sound recording systems assure high fidelity reproduction. The film transport system incorporates a governor motor that maintains a highly accurate filming speed even when shooting in cold temperatures. And the very same superb standards of quality can be found in all of their many other features.

In designing these two sound movie cameras, Elmo had you in mind all the time.





## SPECIFICATIONS

Information marked in red refers to the 1012S-XL MACRO, in blue to the 612S-XL MACRO, and in black to both.

### Lens

Lens . . . . .	Wide F1.2 to Tele F1.8, 10 to 1 Elmo Zoom Lens, f=7.5-75mm with Focusfree filming facility F1.2, 6 to 1 Elmo Zoom Lens, f=8.5-51mm with Focusfree filming facility
Zooming . . . . .	2-step powered zooming (approx. 7/12 sec.) and manual zooming 2-step powered zooming (approx. 5/10 sec.) and manual zooming
Macro . . . . .	Telephoto macro, Minimum lens-to-object distance: 15cm Wide macro, Minimum lens-to-object distance: 5cm
Filter Size . . . . .	62mm diam, 55mm diam.

### Viewfinder

System . . . . .	Single lens reflex
Focusing . . . . .	Split-image
Eyesight Adjustment . . . . .	-6 to +3 diopt.
Indication . . . . .	F stop, Closed aperture, Over/Underexposure, Film transport (green LED), Recording (red LED) and End-of-film/no-film

### Exposure

System . . . . .	Five-blade iris diaphragm, TTL Servo EE
ASA Film Speed . . . . .	ASA 25/100 . . . . . for daylight, ASA 40/160 . . . . . for artificial light, Type-G film
Photometry Range . . . . .	F1.2-F32
Built-in-Filter . . . . .	85 filter (Type-A) Interlocked with Type-G film cartridge for automatic release, manual release with filter selection dial.
Fade-in/out . . . . .	Automatic simultaneous (picture & sound) fading by fade button, Manual picture fading is possible.
Manual Exposure Control . . . . .	Possible
EE Lock . . . . .	Possible

### Film Drive

a. Filming Mechanism	
Shutter Opening	
Angle . . . . .	220°
Filming Speed . . . . .	18/24 fps and single frame (both sound & silent)
Speed Control . . . . .	Frequency control servo system
Film Counter . . . . .	Forward counting, Automatic reset
b. Sound Recording Mechanism	
Recording Speed . . . . .	7.62 cm/sec. (18 fps), 10.16 cm/sec (24 fps)
Speed Control . . . . .	Frequency control servo system
Capstan . . . . .	Belt driven
Pinch Roller . . . . .	Magnetic control

### Recording Circuit

Amplifier . . . . .	1 IC, 4 transistors, 4 diodes
Recording Level Control . . . . .	Automatic level control (ALC). Sound fade-in/out is possible with sound fader or fade button.
Rec. Equalizer . . . . .	Interlocked with filming speed selector
Rec. Indication . . . . .	Red LED in viewfinder
Monitoring . . . . .	Possible
Input . . . . .	Mic: -72 dBs, AUX: -20 dBs
Power Source . . . . .	9V with 6 penlight batteries (size AA), EE indication battery checker

### 200 ft. Film Cartridge

Viewfinder Shutter . . . . .	Built-in
Self-Timer . . . . .	Built-in (Delay: 10 sec., Filming: 10/20 sec.)
Cue Light . . . . .	Blinks while film is being exposed
Grip . . . . .	Folding type
Remote Control . . . . .	Possible
Dimensions & Weight . . . . .	278 x 247 x 70mm (109.5 x 97.2 x 27.6 in.), 1.8 kgs. (4.0 lbs.) 238 x 247 x 70mm (93.7 x 97.2 x 27.6 in.), 1.55 kgs. (3.4 lbs)

\* Specifications and designs are subject to change without prior notice.

# Simultaneous Recording and Filming Enhanced by 4 Splendid Features

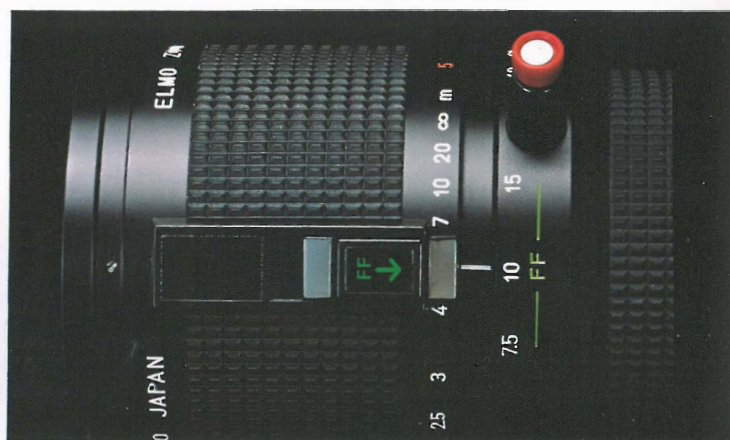
## Sharp F1.2 High Zoom Lens with Macro Capability

First of all, take a good close look at the remarkably sharp new lenses featured by the 612S-XL Macro and the 1012S-XL Macro. The 612S-XL offers you a 6X zoom while the 1012S-XL gives you a really fine, powerful 10X zoom. Both qualify as truly professional optical systems. The incredibly large F1.2 maximum aperture of these exceptional lenses, perhaps the brightest in their class, affords an excellent flexibility for creative shooting under low level illumination. And since both cameras feature wide 220° shutter opening angles, you can easily capture even the most dimly lit subject. Aberration has been completely compensated for throughout the entire range of these zooms so that perfectly sharp focus, contrast and resolution are maintained from wide angle all the way to telephoto. Thanks to their surprisingly small optical design, compactness and ease of operation, you can really follow the action no matter where or when it is.



## FOCUSFREE™ System Assures Sharp Picture Quality

The 612S-XL Macro and the 1012S-XL Macro incorporate Elmo's new FOCUSFREE™ system that makes focusing problems just a thing of the past. This wonderful feature is especially convenient in such cases in which the subject is moving either toward or away from the camera. In the focusfree setting 2X zooming (f = 7.5 ~ 1.5 mm.) is possible with the 1012S-XL and about 2X zooming (f = 8.5 ~ 1.5 mm.) is possible with the 612S-XL Macro so that you can zoom right in on moving subjects without worrying about time-consuming focusing adjustments. When the focusfree setting is released the camera switches over automatically to the conventional focusing adjustment.

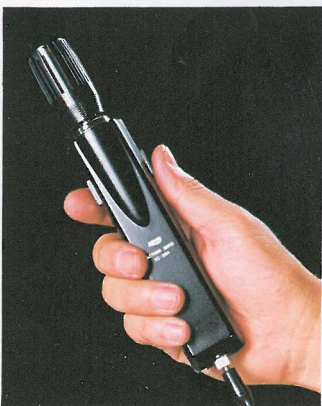


Focusfree Range

1012-XL MACRO		612-XL MACRO	
f = 7.5 mm	F1.2 approx. 1.6 m~∞	f = 8.5 mm	F1.2 approx. 1.9 m~∞
	F4 approx. 0.6 m~∞		F4 approx. 0.8 m~∞
	F11 approx. 0.3 m~∞		F11 approx. 0.3 m~∞
f = 15 mm	F1.4 approx. 3 m~13m	f = 15 mm	F1.2 approx. 3.3 m~10 m
	F4 approx. 1.8 m~∞		F4 approx. 1.8 m~∞
	F11 approx. 0.9 m~∞		F11 approx. 0.9 m~∞



## Elmo's Exclusive Cordless Action Microphone



Elmo has designed and developed a totally new low profile type telescoping zoom microphone for both these cameras, as an integral part of the camera body. The EC-204 Action Microphone was designed for maximum handling ease along with the camera body itself with no bothersome cord to get in your way. This electret condenser microphone easily

detaches to be used as a remote cord microphone for interviews and documentary filming. Capable of amplifying low frequency characteristics, its unidirectional design and high sensitivity assure true dynamic sound quality under any condition.

## 200' Film Cartridge for Prolonged Filming



In addition to normal Super 8 sound and Super 8 silent film cartridges, the 612S-XL Macro and the 1012S-XL Macro accept special 200' film cartridges for extended periods of simultaneous sound filming, four times the amount of normal 50' Super 8 sound film cartridges, exactly thirteen minutes twenty seconds at 18 fps. This means less film changes during shooting and makes editing of your films considerably easier. It is a truly professional feature not to be found in amateur equipment.

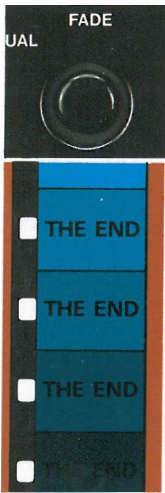
1. 200 ft cartridge film is currently being produced by Eastman Kodak under the brand name EKTACHROME SM7244 (ASA 100 UNDER DAYLIGHT). If it is not presently available in your country, it can be imported from the United States.
2. This film must be developed using Eastman Kodak's special developing machine. Thus if you import the film, it is advised that you verify the availability of processing facilities in your country. It can also be developed in the U.S.



# Outstanding Performance of Every Function for True Sound and Image Fidelity

## To Satisfy Script and Plot Requirements

### One Touch Simultaneous Fading of Sound and Image



You simply have to touch the fade button for simultaneous fading of sound and image, automatically, a feature always at your fingertips. These techniques are very effective for leading and final scenes besides interesting transitions from one scene to another. And you can control these effects independently, too, with the A-M dial and the sound fader. In-

deed, you have unlimited freedom for creative fading.

### Instant Macro Filming

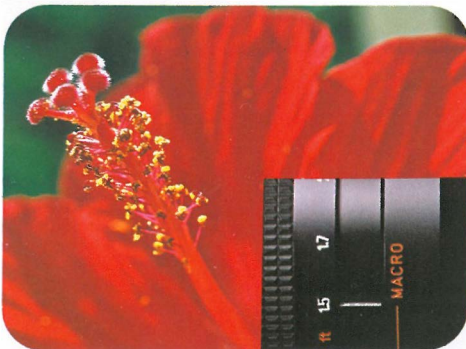


Photo: Telephoto macrocinematography with the 1012S-XL Macro

The red button on the zooming ring instantly makes the camera's zoom lens become a close-up lens. The 612S-XL Macro features a wide angle macro that lends interesting perspective to any subject. The 1012S-XL Macro, on the other hand, gives you a telephoto macro that allows you to make use of dramatic depth of field effects.

### Unique Built-In Self-Timer



Elmo's 612S-XL Macro and 1012S-XL Macro incorporate built-in self-timer mechanisms that can be set for

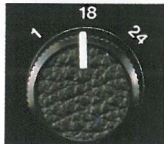
filming during 10 or 20 seconds after a 10-second lag.

### Two-Speed Auto Zoom



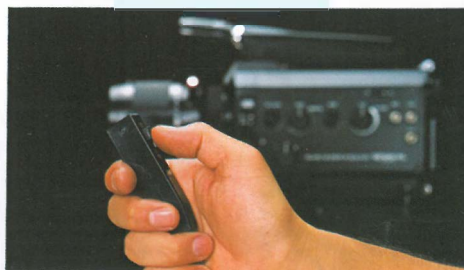
In addition to manual zooming, you have the advantage of smooth auto zooming at two different speeds for beautiful compositions that add interest to your movies. The 612S-XL Macro completes fast zooming within about 5 seconds, or within 10 seconds at low speed. The 1012S-XL Macro's zooming takes about 7 seconds at high speed and 12 seconds at low speed. You can easily follow your subject without ever changing your stance.

### Animations and Time Lapse Filming



Besides filming speeds of 18 fps. and 24 fps., a single frame setting is provided. It is remarkably easy to create your own animations and to film time lapse sequences.

### Remote Control Shooting



The remote control accessory allows you to start and stop sound shooting from a distance. It is particularly useful in filming certain subjects which otherwise could not be filmed close up.

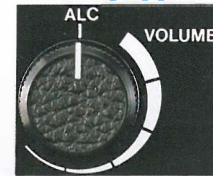
### A-M Dial for the Desired Effects



The versatile A-M Dial both in the 612S-XL Macro and 1012S-XL Macro offers a TTL automatic exposure control system, and manual adjustment

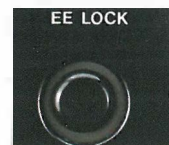
of the diaphragm, when high key visual effects are in order, or for low key effects to darken a given sequence or scene. Fade-in and fade-out are also possible with this dial.

### ALC-Equipped Sound Fader



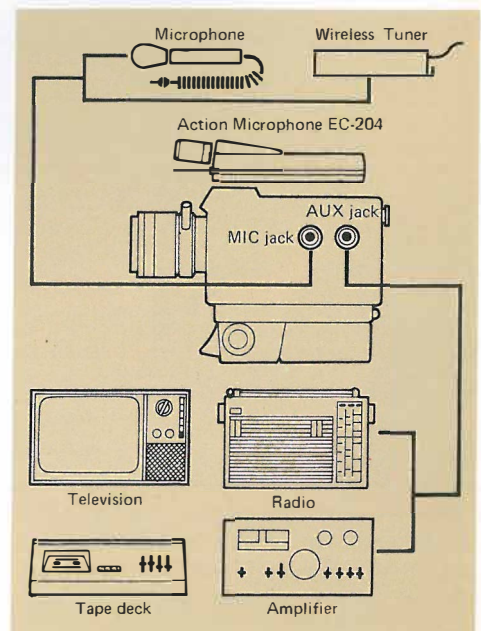
Elmo's unique sound fader is actually a combination of automatic level control (ALC) and manual volume control. The ALC position maintains the optimum recording level for normal sound shooting automatically. The sound fader can also be used manually to increase or decrease the recording level for sound fade-in and fade-out, but even then the ALC still functions to prevent distortion.

### Convenient EE Lock



By simply pressing the EE Lock button, the diaphragm setting established by the TTL exposure control system can be temporarily locked in position. This feature is especially useful to achieve dramatic compositions.

## Capture the Beauty of Natural Sound



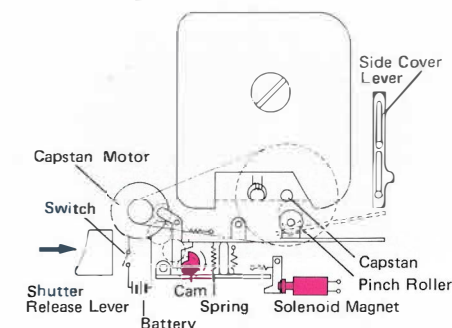
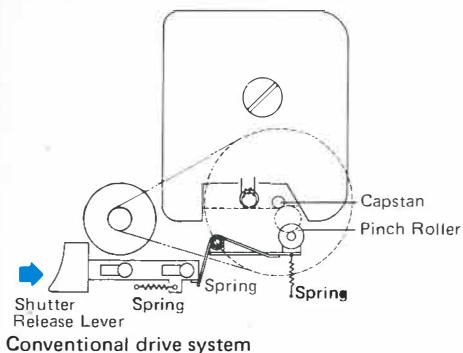
### Versatile 3-Way Sound Recording

The 612S-XL Macro and 1012S-XL Macro feature a versatile system of three sound recording inputs. In addition to the cordless action microphone, EC-204, a MIC jack is provided for connecting another microphone while the AUX jack enables connection to a television set, cassette recorder, amplifier, etc. These features have immense potentials for creative expression by permitting advanced sound recording techniques for adding background sound to the main sound, besides variations and music. Truly professional techniques are possible with the 612S-XL Macro and the 1012S-XL Macro.

### High-Quality Recording Mechanism

The built-in electromagnetic release system incorporated in the 612S-XL Macro and the 1012S-XL Macro is fundamentally different from conventional systems in that the shutter release lever and recording button are connected mechanically.

In this electromagnetic release system, just a light finger pressure on the shutter release lever is sufficient to activate the recording mechanism, and there is never any deterioration of sound quality due to poor recording head contact caused by varying finger pressures. A special pre-drive mechanism incorporates a flywheel to eliminate wow. This enables beautiful continuity and natural sound transitions from scene to scene. Moreover, the running noise of the camera has been reduced to a virtually inaudible level, to avoid any unwanted noise from being picked up by the recording microphone.

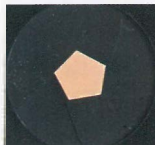


Drive system of the 1012S-XL Macro and the 612S-XL Macro

Yet, in its development of the 612S-XL Macro and the 1012S-XL Macro, Elmo has gone even one step further in the pursuit of premium sound quality. In order to suppress undesirable wow and flutter as much as possible, an FG (frequency generator) servo motor was adopted. Perfect stability of the film transport system is assured since the effects of voltage changes due to cold temperatures or battery fatigue are minimal. Furthermore, resonance of the camera body and microphone have been minimized.

### High Precision Exposure

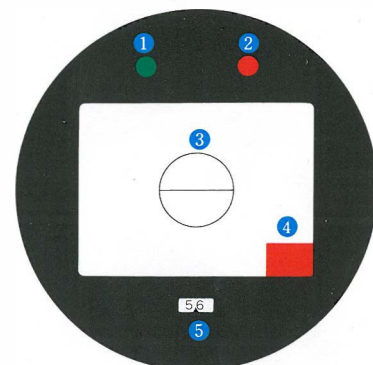
#### Accurate TTL Servo EE System and 5-blade Diaphragm



Elmo employs a TTL Servo EE System to set the proper exposure accurately and automatically. This system measures the intensity of light through the lens and diaphragm just in front of the film plane. This information feedback is transmitted to a servo motor which in turn readjusts the diaphragm. Therefore, a continuous process of diaphragm setting, light measurement and correction is repeated indefinitely. Since light from the subject is measured so close to the film plane, both accuracy and response are excellent.

### At a Glance, You Know Exactly What the Mechanisms Does

#### Bright, Easy-to-read Viewfinder Information

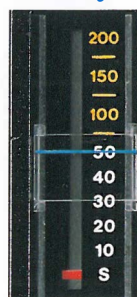


### Diagram of the Viewfinder

1 Film transport/film end signal 2 Recording signal 3 Split image focusing screen 4 Film end mark 5 f/stop indicator (proper exposure setting, over/underexposure warning, and f/stop are indicated).

A multi-coating is applied to the mirrored surface of the split prism which greatly improves the brightness of the viewfinder. Its wide field of view is remarkably sharp, and all filming information is concentrated in the viewfinder to enable you to keep your attention fixed on the action.

### Film Counter With Convenient Memory



The film counter serves to indicate footage with both 50 ft. and 200 ft. film. Its sliding indicator tells at a glance exactly how much shooting time remains and how much film is exposed.

### Viewfinder Shutter

The viewfinder shutter provision shields the film from unwanted light coming in through the viewfinder so that accurate exposure measurement is always assured.

### Built-in Cue Light



A red LED located on the front of the camera informs the subject that filming has begun.



# Many Professional-quality Accessories To Give Free Rein to Your Imagination.

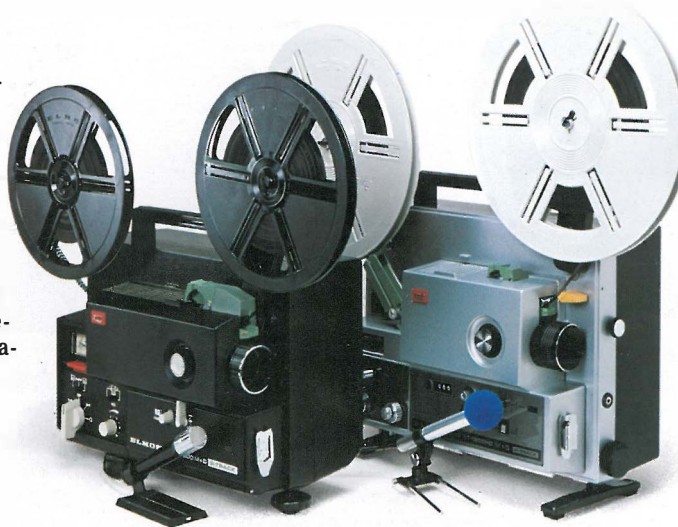


- ① Action Mike EC-204 ② Action Mike Extension Cord, 5 m (16.5 ft) ③ Eyecup ④ Action Mike Extension Mount  
 ⑤ Lens Hood ⑥ Mike Cord Holder ⑦ Hard Case ⑧ Hand. Mike ⑨ Hand Mike Extension Cord, 5 m (16.5 ft)  
 ⑩ Stethoscope Earphone ⑪ Remote Control ⑫ Power Pack (9V) PP-292 ⑬ Movie Light ⑭ Movie Light Bracket  
 ⑮ Headphone EH-75 ⑯ Filters (55 mm $\phi$ ), (62 mm $\phi$ ) ⑰ Shoulder Strap ⑱ MC-010 Cord for Auxiliary Input

## Dynamic Sound and Images. Elmo's 2-track Sound Projectors.

### ELMO ST-600

This high performance projector offers remarkable quality reproduction of both optical and magnetic tape sound films. By utilizing 2 tracks, it is easy to add narrations and musical background. Since an entirely different track is used, there is no risk of unintentional erasures in the original. On the other hand, it reproduces track 1 and track 2 separately.



### ELMO ST-1200HD

With the same 2-track capability as the Elmo ST-600, it features an amazingly bright zoom lens, combined with the 15V 150W cold mirror quartz lamp, to obtain one of the brightest Super 8 images possible. The powerful distortion-free 15W amplifier can fill any room with crystal clear sound. With more features than the ST-600, the ST-1200HD projects the full impact and beauty of your films. The 360-meter film capacity provides over 1 hour of continuous projection.

**ELMO** ELMO CO., LTD. NAGOYA, JAPAN

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