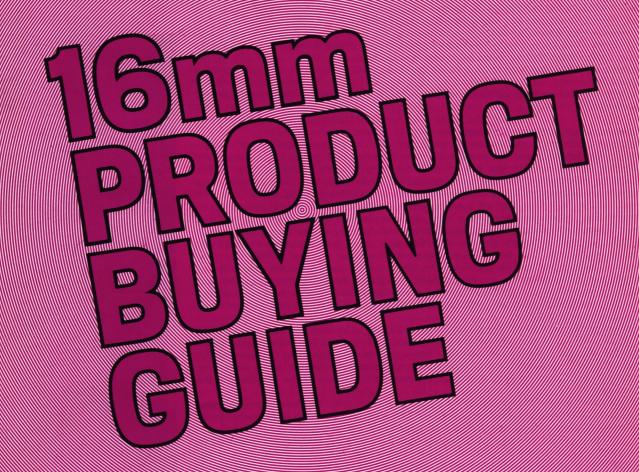
AMERICA'S LEADING MOVIE MAGAZINE

EBCOLEDX REPORTER



SPORTS FILMING: Slowing down action so that it can be analyzed by the coach, instructor, or athletes, is the most valuable feature in a movie camera for sports filming. The Bolex system provides the best and easiest ways of doing this. The running speed of the H-16 can be increased to 24, 32, 48, or even 64 frames per second, thereby slowing down the action two, three, or even four times when projecting the film at the normal speed.

Equipping the camera with the Bolex Unimotor is recommended for uninterrupted filming over an entire 100' reel. With automatic threading, changing film is quick and fool-proof—easily done between downs in a football game. Frequent film changes can be

eliminated by using the 400' Bolex.

Where light is sufficient, zoom lenses are the best choice for sports filming since they allow going from a long shot to close-up without stopping the camera. In poor light,

the faster (f/1.4) fixed focal length lenses may be necessary.

EDUCATION: Any Bolex H-16 model is ideal for educational filmmaking. The operation of the camera is simplified so that teachers or students with little photographic knowledge can obtain good footage. The loading of the camera, for instance, is automatic and foolproof. The footage counter is automatic and does not require manual re-setting. The reflex viewing through the taking lens on the Rex model eliminates such mistakes as incorrect framing with cut-off heads, off-centered titles, filming with the wrong lens, out-of-focus frames due to incorrect focusing, filming with incorrect filters, filming with a lens cap on the lens, or with lens partly obscured.

Besides simplicity of operation, the Bolex H-16 offers the greatest versatility, and one H-16 camera is all that is necessary for a school to produce any type of motion picture. TIME LAPSE STUDIES: Time lapse photography has become one of the most valuable motion picture techniques developed. Actions which last hours or days can be filmed with this technique, and then shown within a period of seconds or minutes at a time and place that is convenient for study. Most important, time lapse photography permits

studying movements which are too slow to be seen by the naked eye.

Some of its applications are studying the growth of plants, trees, the germination of seeds; microscopic examination of cell growth and behavior of micro-organisms; memomotion studies in industry to evaluate the movements of workers and machines; studying the flow of traffic outside or in plants, warehouses, or offices; the study of natural phenomena, formation and movement of clouds, solar eclipses, tides, shadows; or just to enjoy seeing people or other objects move on the screen at an unnatural rapid pace. The Bolex H-16 camera with its built-in single frame device is designed for all time lapse applications. Various companies offer a wide selection of time lapse units which automatically trip the shutter at intervals from seconds to hours, as set on the time lapse control box.

At any time the number of frames exposed can be seen on the frame counter built into the H-16.

AMATEUR FILMING: Although the Bolex H-16 has been described here for all types of professional applications, it remains the "dream camera" of the amateur.

Fades of professional quality can be produced right in the camera with the variable shutter. For lap dissolves, the variable shutter can be opened and closed automatically with the Rexofader. The film rewind with the built-in frame counter makes double exposures, split frame shots, and superimposed titles easy to do and as accurate as those done in the laboratory. Tricks like these are bound to fascinate any audience.

NATURE STUDIES: This type of motion picture work has some special requirements. Extreme long telephoto lenses are a must, and the three-lens turrent with its full lens interchangeability solves this problem. Framing and focusing under these conditions is critical, and only a camera like the H-16 Rex with groundglass focusing while filming can be satisfactory. The Rex version, therefore, should be selected for this purpose. Another feature that makes the H-16 the ideal wildlife camera is the possibility of remote-controlled operation for filming animals without disturbing them. For this purpose, the camera is equipped with the Bolex Unimotor. With extension cords mounted between motor and batteries, starting and stopping the camera can be done from distances up to about 200'.

Camera speeds up to 64 fps permit slow motion studies of birds in flight or other animals. **SCIENCE AND RESEARCH:** The tremendous versatility of the H-16 Rex makes it ideal for all types of research analysis from extreme close-ups to extreme telephoto cinematography. The Bolex H-16 combined with a time lapse unit becomes a data recording camera or a research instrument to record phenomena moving too slowly to be detected by the naked eye.

Research instruments must naturally be accurate and reliable. The Bolex cameras made with Swiss watchmaking precision have proven their performance over many years,

under most adverse conditions and at tropic and arctic temperatures.

CINEPHOTOMICROGRAPHY: For filming through the microscope, the Bolex H-16 camera is usually equipped with a 50mm or 75mm focal length lens. This arrangement is advantageous in that it does not require any additional optical devices, photographic eyepieces with adjustable lens or mechanical devices to fix the distance between microscope and camera.

Although the groundglass of the H-16 Rex camera is ideal for framing and viewing the specimen, it is recommended that a microscope adapter with its own viewing and focusing arrangement be mounted between camera and microscope. Such a microscope adapter is more than likely equipped with a photoelectric cell to determine correct exposure.

A Bolex motion picture camera presents ways of filming and studying microscopic specimens, not possible in visual observation. A fast-changing specimen can be slowed down





3 or 4 times so that its actions can be studied more accurately. On the other hand, specimens which may take hours to change can be filmed with time lapse cinematography so that the change takes place within seconds.

MEDICAL PHOTOGRAPHY: Close-up photography is predominantly used in the medical field and, therefore, a Rex camera with its accurate focusing and framing possibility should be selected.

Zoom lenses such as the Vario Switar, Pan Cinor, or Angenieux, are ideal for surgical films since going from long shots to close-ups can be accomplished without changing the position of the camera or losing continuity in the surgical procedure.

In other cases, long focal length lenses are a better choice. For dental or eye surgery filming, a Macro Yvar 100 or 150mm, together with a short extension tube, is best since they can cover the desired 2" area from a long distince of 4' to 5'.

Although the Bolex H-16 Rex is a "professional type" camera, its operation is simple and does not require extensive photographic knowledge. A doctor or dentist can easily operate the camera and make his own medical films and, of course, use the camera for pleasure purposes as well.

INDUSTRY: Motion pictures serve industrial firms in many different ways. Promotional films are used to show manufacturing, testing, and research procedure to prospective customers; research departments use motion pictures cameras to record on film all types of data and developments; training films are used to acquaint new employees with the correct method of operating a machine, assembling components, or performing other manual skills. Another major application is in the industrial engineering department for work method studies.

The Bolex H-16 is calibrated in speeds from 12 to 64 fps. However, the camera is available on special request and at a slight increase in price with a special dial engraved in 750, 1000, 1500, 2000, 3000, and 4000 frames per minute.

UNDERWATER FILMING: The H-16 is inserted into the Bolex underwater housing, designed for depths down to 330 feet. The Switar 10mm f/1.6 or 16mm f/1.8 are perfect underwater lenses, due to their tremendous covering power. The Bolex underwater case is equipped with its own parallax corrected viewfinder. Winding the spring motor and opening or closing the lens diaphragm can be done from outside the case. No tools are required to lock or remove the camera from case.

ADVERTISING AND PROMOTION: Since advertising and promotion films are usually projected on large screens, quality is a major requirement.

The film transport mechanism and the H-16 lenses are made to the highest degree of perfection and capable of producing 16mm films with a quality equal to those of the most professional studio equipment. The critical sharpness from corner to corner at any f opening, the excellent contrast, the wonderful color rendition in the pictures and the superb picture steadiness will amaze any audience and make a valuable contribution when films are entered in competition.

SOUND FILMS: In most motion pictures, the sound is added in a studio when the film is completely edited. However, in many news, documentary, advertising films, and TV commercials, synchronous sound recordings on location are desired or necessary. For this purpose, the Bolex H-16 is equipped with the constant speed motor, and the recording is made on a ½" inch tape recorder. The sync pulse generator in the Bolex constant speed motor records a 60-cycle signal on the tape, thereby assuring perfect lip sync. **TELEVISION COMMERCIALS:** Television commercials require special effects cameras, and the Bolex H-16 Rex, equipped with Matte Box, is a true special effects camera.

Subjects can be animated and brought to life by single frame filming. Animated drawings can be produced by mounting the camera on the Bolex Super Titler and animation stand which also permits making any type of moving, scrolling, turning, or spinning title. Scenes can be made to dissolve into each other by rewinding the film between the fades. Two or more scenes can be superimposed, each covering the entire or only part of a frame. Titles can be superimposed over actual subjects and moving subjects can be speeded up or slowed down. The imagination of the filmmaker alone sets the limits.

MEMOMOTION AND TRAFFIC STUDIES: Memomotion studies are made for the purpose of finding smoother or more economical ways of traffic or product movement. A motion picture camera makes these studies automatically, and the developed films can be evaluated by an entire group of industrial engineers or traffic experts in the convenience of a projection room. Furthermore, the films can be seen as many times as it is necessary to find a solution to the problem. The economical and easy-to-use Bolex H-16 camera makes such studies feasible in smaller firms or communities not equipped with a special photographic department.

The most frequently used camera speed for memomotion studies is one or two frames per second. For this purpose, the Bolex H-16 camera is connected to a time lapse or memomotion unit which automatically trips the camera shutter at the predetermined speed.

LECTURE FILMS: Lecture films are made anywhere on the globe—from the arctic to the tropics—and for this reason the motion picture camera must be reliable to work in the extreme heat and cold. Bolex H-16 cameras have proven their performance in those situations many times over in the last 35 years. Bolex H-16 cameras are compact and lightweight and can be carried anywhere for candid filming of subjects while they are unaware of being filmed.

Since many lecturers prefer to show the original, the camera must be capable of producing some of the professional effects, such as fades and lap dissolves on the original, which is no problem on the Bolex Rex. Regardless whether the original or the print is shown, the Bolex produces lecture hall picture quality.



THE 400 FOOT BOLEX

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Professional electric motor driven 16mm Bolex camera with lightweight 400' film capacity magazine The 400' Bolex is available in two versions, one using the Bolex H-16 Rex-5, the other, the Bolex H-16M-5 camera. (Description of cameras on following pages.)

When used with the Bolex H-16 Rex-5 camera, the reflex viewing system on the camera permits exact framing and through-the-lens focusing. The Vario Switar 86-OE lens can also be used with this camera, giving fully automatic exposure control through the lens.

The Bolex H-16 M-5 is the most economical 16mm camera available with a 400' film capacity. This unit is ideal for filming situations where a reflex viewing system is not necessary. It also lends itself ideally for use with the Pan Cinor 85-2 or Angenieux zoom lenses with their own built-in reflex finders for viewing and focusing.

Both 400' Bolex cameras permit uninterrupted filming for over eleven minutes at 24 f.p.s. and are therefore extremely valuable where frequent changing of film is inconvenient or impossible or where it interrupts the continuity in the filmed action.

The 400' Bolex cameras can be easily handled and weigh only slightly over 12 lbs. An electric grip is available for hand-holding the camera. There are no exterior belts since a small motor attaches to the 400' magazine for the film take-up. This take-up motor has a bayonet mount and is changed instantly from one magazine to another.

The lightweight 400' magazine can be easily and quickly removed from or attached to the camera by a conveniently located locking hinge. The cameras, therefore, can at any time be used as 100' capacity cameras without the 400' magazine. In this case, a plate covers the film channel opening of the camera.

The 400' Bolex cameras are driven by battery-operated DC motors which are easily attached to the outside of the camera.

Two different motor drives are available.

1. MST Constant Speed Motor.

The constant speed motor drives the camera at exactly 24 f.p.s. and is equipped with a sync pulse generator, which records a 60-cycle signal on tape for synchronous double system sound recording.

The motor is easily attached to the one-frame shaft in the camera and is powered by a compact, lightweight, rechargeable 12V powerpack with built-in charger. The constant speed motor is the proper choice for sync sound filming or silent filming at 24 f.p.s. when the smallest and lightest powerpack is desired.

2. Unimotor B

The Unimotor B is used on the 400' Bolex in combination with the Bolex voltage regulator. Both mount easily on the side of the Bolex H cameras with the Unimotor shaft connecting to the 8-frame shaft of the camera. The Unimotor B is a variable speed motor, driving the camera at speeds from 12 to 32 f.p.s. It is powered by six 6V dry cell batteries which are stored and carried in a compact aluminum case.

The Unimotor B/Voltage Regulator combination is the proper choice for silent filming where a low priced motor



drive is desired or when filming at variable speeds is necessary.

MST Constant Speed Motor and Unimotor B can also be used on the 100' capacity Bolex cameras. Details on the motors are found on Pages 19-21.

Following are the possible camera/motor combinations:

100' Camera for silent or sound filming at 24 f.p.s

Bolex H-16M or H-16 Rex with lens of your choice. MST Constant Speed Motor #806 Rechargeable Battery Pack #808 Electric camera grip #787 (if desired) Weight: Camera—8 to 8½ lbs.

Battery—3 lbs. 8 oz.

400' cameras for silent or sound filming at 24 f.p.s.

Bolex H-16M or H-16 Rex with lens of your choice MST Constant Speed Motor #806 Rechargeable battery pack #808 400' Magazine #892 Take-up Motor #804 Connecting Cord #809 Electric Camera Grip #787 (if desired) Weight: Camera—11½ to 12 lbs.

Battery—3 lbs. 8 oz. 100' Camera for variable speed filming

(used as a 100' outfit exclusively)

Bolex H-16M or H-16 Rex Camera with lens of your choice

Unimotor #800 or Unimotor B #802

Battery Case #810

Five 6-volt batteries (Everyeady 510S) #821

Electric camera grip #787 (if desired). Only possible with Unimotor B #802

Weight: Camera—7½ to 8 lbs.

Battery—71/2 lbs.

100' Camera for variable speed filming

(with possibility of using same motor and powerpack for 400' camera)

Bolex H-16M or H-16 Rex Camera with lens of your choice

Unimotor B #802 Voltage Regulator #803 Battery Case #813

Six 6-volt batteries (Eveready 509) #819

Weight: Camera—8 to 8½ lbs.

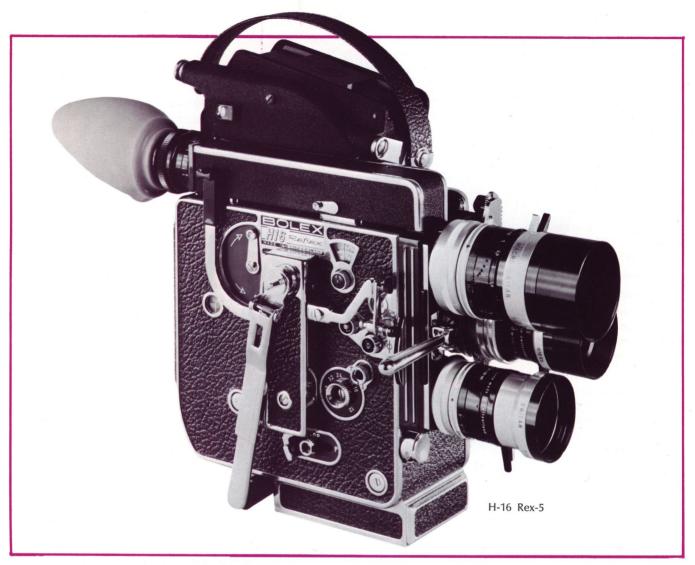
Battery—10½ lbs.

400' Camera for variable speed filming

Bolex H-16M or H-16 Rex Camera with lens of your choice

Unimotor B #802 Voltage Regulator #803 Battery Case #813 Six 6-volt batteries (Eveready 509) #819 400' Magazine #892 Take-up Motor #804 Electric camera grip #787 (if desired) Weight: Camera—11½ to 12 lbs.

Battery-101/2 lbs.



THE BOLEX H-16 REX-5

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For rugged use, accurate performance, superb picture quality. With reflex viewing and focusing, auto load The Bolex H-16 Rex-5 offers the ultimate in motion picture camera versatility. It is the ideal camera for use in every phase of photography and is readily adaptable to the needs of every cameraman whether he is professional or amateur. The camera is a masterpiece of mechanical and optical precision and includes these many outstanding features. The H-16 Rex-5 can, of course, also be used with the 400′ magazine.

THE BOLEX H-16 REX-4

The Bolex H-16 Rex-4 offers the professional quality and features of the H-16 Rex-5 but is not equipped with the saddle to accept the 400' film magazine. The camera is ideal for all amateur and professional applications where the 100' film capacity is sufficient.



REFLEX VIEWING: A through the lens viewing system with lifesize magnification (at 25mm) permits complete control of composition and framing as well as accurate focusing on the ground glass with correct evaluation of depth of field. The prism system provides a bright 10X image magnification without any flicker. The adjustable eyepiece has a diopter correction of +3 to -3 and can be locked in position. A rubber eyepiece is supplied for convenient viewing.

VARIABLE SHUTTER: The variable shutter can be controlled manually or it can be controlled automatically with accessory Rexofader to fade in or fade out or it is used to increase the shutter speed without changing the speed of the camera. When the variable shutter is not fully opened, an orange marker appears in the viewfinder to prevent inadvertent underexposure.

FILM REWIND: The Bolex film rewind is unlimited and, therefore, a full 100' of film can be rewound regardless whether the springmotor in the camera is wound or unwound. Film rewind permits double exposure, superimposition, and other special effects. Together with the variable shutter, professional looking lap dissolves can be produced in the camera.

AUTOMATIC THREADING 100'. Film loading of the 100' capacity camera is automatic with single or double perforated film. A safety mechanism insures that the internal controls are correctly

positioned before filming. Loop guides assure automatically the proper size loop and are automatically opened when camera lid is put on. Spool ejector facilitates changing of films.

THREE POSITION TURRET: For full lens interchangeability. A turret lever guides the turret to desired lens position. A turret lock is built in for maximum turret stability with telephoto or zoom lenses.

FILTER SLOT: Behind the turret filter slot holds economic gelatin filters. The filter is always in position regardless of which lens is used, and a single set of gelatin filters is sufficient for the whole range of lenses. Four commonly used gelatin filters are supplied with each camera.

VARIABLE SPEEDS: Continuous range of running speeds from 12 to 64 f.p.s. for speed-up action, normal filming or slowmotion.

SINGLE FRAME CONTROL: Accurate single frame control for special effects, titling, animation, time lapse and memomotion studies. Time single frame exposure setting for easy synchronization with electronic flash.

CAMERA BASE: For mounting matte box, and firm support on tripod, titler, etc.

COUNTERS: Accurate footage counter works forward and reverse. Resets to 0 automatically when changing film. Frame

counter counts individual frames in forward, reverse and single frame filming. Audible scene length signal counts every 8" or 30 frames.

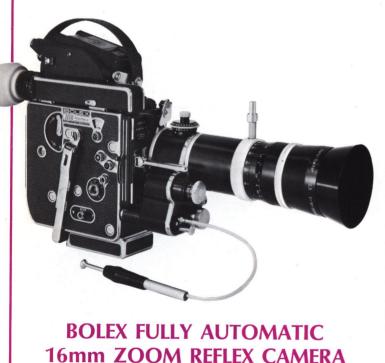
PROFESSIONAL IMAGE QUALITY: Long, highly polished filmgate with lateral spring tension guides and spring balanced pressure plate assure perfect film flatness. Double function Bolex registration claw serves for film transport and film registration assures professional image steadiness. Automatic loop former prevents loss of loop while filming.

VARIETY OF CAMERA DRIVES. The H-16 Rex has built in governor controlled spring motor with 16½' film run, two external shafts, an 8 frame shaft and a one frame shaft for rewinding and for connecting motor drives for time lapse and animation devices.

SYNCHRONOUS SOUND FILMING: Accessory constant speed motor is equipped with sync pulse generator, which records a 60 cycle sync pulse on ½ inch tape. Bolex H-16 cameras equipped with constant speed motor can be used for accurate synchronous double system sound recordings.

PROVEN CONSTRUCTION: Rugged camera body and precision mechanism assures reliable operation. Conveniently, shaped for hand-held operation with built in carrying strap.

Weight without lens: 6 lbs. 12 oz. Size of Camera Body: 9" x 6" x 3"



The Bolex Rex cameras can now be made into fully automatic electric eye cameras with light measuring through the lens by equipping them with the Vario Switar 86-OE zoom lens.

Viewing and focusing are done through the camera's reflex system and an automatic pre-set diaphragm arrangement permits focusing with diaphragm fully opened. Sensitive cadmium sulphide photo resistor measures the light through the lens and, therefore, measures exact area being filmed regardless of the focal length of the lens. It is adjustable for film sensitivities from 10 to 200 ASA at camera speeds from 12 to 64 f.p.s. Manual diaphragm setting and controlled automation by limiting diaphragm movement provide the most versatile exposure system. Zoom range: 18 to 86mm. Maximum aperture f/2.5 minimum aperture f/16. Filter size: Series VIII. Weight with H-16 Rex-5, 81/2 lbs. Vario Switar 86-OE can easily be removed for use of other lenses.



The Bolex H-16 M-5 is a 100′ capacity single lens camera without reflex viewing, variable shutter and filter slot but with all the other features and the professional quality and performance of the Bolex Rex including the possibility of using the 400′ magazine. Viewing is through a removable multifocal viewfinder mounted on the side of the camera which can be adjusted for parallax error. It is adjustable for lenses from 10mm to 150mm. The camera can be equipped with standard "C" mount fixed focal length lenses or zoom lenses.

The low priced H-16 M is ideal for all applications where reflex viewing, variable shutter and filter slot are not necessary—for filming with zoom lenses where reflex viewing and focusing is done through the lens' viewfinder and for special applications where a camera must be an integral part of a system such as monitoring bank transactions, recording periodic industrial data systematically, routinely photographing groups for census purposes and many more uses. For information regarding a particular application write to Bolex Technical Service, Paillard Inc., 1900 Lower Road, Linden, New Jersey 07036.

THE BOLEX H-16 M-5

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Ideal economic camera for school, industry and special applications

BOLEX H-16 M-4

The Bolex H-16 M-4 offers the professional qualities and features of the H-16 M-5 but is not equipped with the saddle to accept the 400 foot film magazine. The camera is ideal for all amateur and professional applications where the 100 foot film capacity is sufficient.



CHOICE OF FILM CAPACITY: The Bolex H-16 M-5 can be used as a 100' or a 400' capacity camera. The 400' magazines can be added at any time without any further modification of the camera. The 400' magazines are easily and quickly removed from, or attached to, the camera.

FILM REWIND: The Bolex film rewind is unlimited and therefore a full 100' of film can be rewound regardless whether the springmotor in the camera is wound or unwound. Film rewind permits double exposure, superimposition and other special effects.

AUTOMATIC THREADING 100'. Film loading is automatic with single or double perforated film. A safety mechanism insures that the internal controls are correctly positioned before filming. Loop guides assure automatically the proper size loop and are automatically opened when camera lid is put on. Spool ejector facilitates changing of film.

VARIABLE SPEEDS: Continuous range of running speeds from 12 to 64 fps for

speed-up action, normal filming or slow-motion.

single frame control for special effects, titling, animation, time lapse and memomotion studies. Time single frame exposure setting for easy synchronization with electronic flash.

CAMERA BASE: For mounting matte box, and firm support on tripod, titler, etc.

COUNTERS: Accurate footage counter works forward and reverse. Resets to 0 automatically when changing film. Frame counter counts individual frames in forward, reverse and single frame filming. Audible scene length signal counts every 8" or 30 frames.

PROFESSIONAL IMAGE QUALITY: Long, highly polished filmgate with lateral spring tension guides and spring balanced pressure plate assure perfect film flatness. Double function Bolex registration claw serves for film transport and film registration assures professional image steadiness.

Automatic loop former prevents loss of loop while filming.

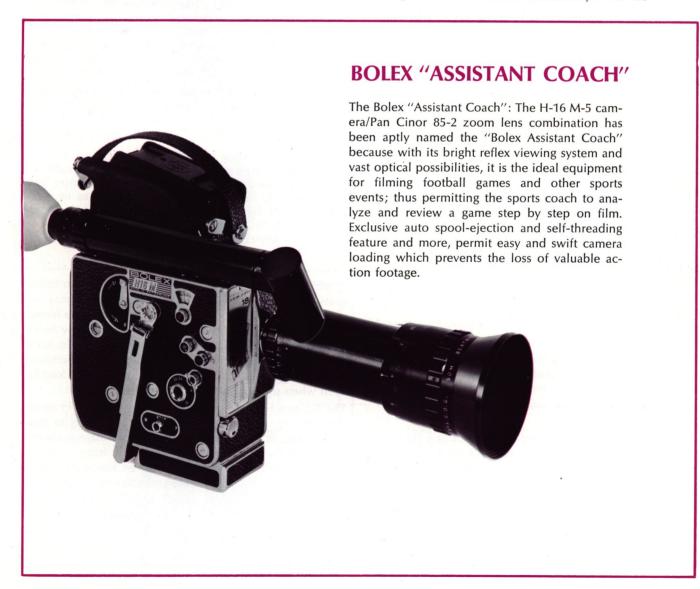
VARIETY OF CAMERA DRIVES: The H-16 M-5 has a built in governor controlled spring motor with a 16½' film run, two external shafts, an 8 frame shaft and a 1 frame shaft for rewinding film, connecting motor drives and for attaching time lapse and animation devices.

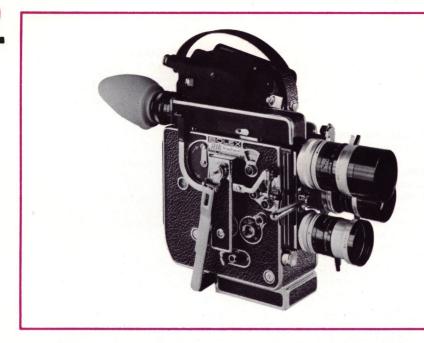
SYNCHRONOUS SOUND FILMING: Accessory constant speed motor is equipped with sync pulse generator, which records a 60 cycle sync pulse on ½ inch tape. Bolex H-16 cameras equipped with constant speed motor can be used for accurate synchronous double system sound recordings.

PROVEN CONSTRUCTION: Rugged camera body and precision mechanism assures reliable operation. Conveniently shaped for hand-held operation with built in carrying strap.

Weight w/o lens: 6 lbs.

Size of Camera Body: 9" x 6" x 3"





BOLEX 16mm LENSES

Bolex 16mm lenses are available to suit every need. A Bolex high precision camera must be equipped with high quality lenses so that the images on the film will be absolutely clear, brilliant and sharp. Kern-Paillard Swiss lenses and Cinor and Angenieux lenses attain this standard throughout an extremely wide range of focal lengths for every conceivable requirement.

Among the unique features are the automatic depth of field scales. Visifocus type shows the range of sharpness clearly by means of brightly colored dots which flash up as the diaphragm ring is turned. On the compass scale, the depth of field is indicated automatically by means of a curved line.

A new approach in lens design is incorporated in the Switar 10mm f/1.6, Macro-Switar 26mm f/1.1, 75mm f/1.9 and Macro-Yvar 150mm f/3.3 lenses. These lenses have a preset diaphragm arrangement that permits closing the diaphragm to the pre-set opening without removing the eye from the camera's reflex finder.

The Macro-Switar 26mm and 75mm, as well as the Macro-Yvar 100mm & 150mm have, furthermore, a built-in Macro extension which permits close-up shots without additional accessories.

Fixed focal length lenses have the advantages of large aperture, extreme close focusing, greatest variety of focal lengths, and maximum compactness. In addition to the fixed focal length lenses, zoom lenses are available for the H-16 cameras.

Zoom lenses permit going from a long shot to a close-up and vice versa without having to stop the camera in order to switch lenses or camera position. They are, therefore, ideal for filming actions, motions, sports.

LENSES FOR H-16 REX CAMERAS

Bolex H-16 Rex cameras have a "C" thread with a standard lens seat to film plane distance of .690", and all "C" mount lenses, therefore, focus properly. However, due to the glass prism between lens and film, the optical characteristics of some lenses are changed to a degree where

the contrast and picture sharpness are no longer satisfactory. To overcome this and be assured of professional picture quality, special lenses in focal lengths from 10mm to 50mm have been designed for the H-16 cameras with reflex viewing. These special lenses are engraved Rx to distinguish them from regular "C" mount lenses.

The Vario Switar 86-OE, Angenieux 120 and 95 w/o finder are optically also specially designed for the H-16 cameras with reflex viewing. These special Rx lenses should not be used on other cameras since they will not provide satisfactory quality.

In addition to these special Rx lenses, H-16 Rex cameras can be equipped with the Pan Cinor Zoom lenses and the regular "C" mount Switar and Yvar lenses in focal lengths above 50mm, which are interchangeable among the various H-16 models.

"C" mount lenses can also be used on other makes of 16mm "C" mount cameras.

16mm ZOOM LENSES

A wide selection of zoom lenses are available to cover every possible need which a Bolex cameraman may require. Pan Cinor, Vario-Switar and Angenieux zoom lenses are made to the same high quality standards as the Bolex camera itself. The design and workmanship form the basis of the precision optical system that insures excellent image sharpness and constant focus at all focal lengths even when shooting at maximum aperture.

The prime advantage of a zoom lens is the ease in going from one focal length to another without having to stop the camera. In addition, with a zoom lens there is always the possibility of zooming in on or away from a subject for special effects or the possibility of following action always keeping the subject the same size on the screen.

Because zoom lenses are usually larger and heavier than fixed focal length lenses, it is recommended to lock the turret of the camera by means of the built-in turret lock. The zoom lenses are supplied with sunshades and various filters are available. Closeup accessories are also available for the lenses.

SWITAR 10mm (5/8") f/1.6

Usable on	. M
Angle of View	52° x 38°
Min. Focusing Distance	8"
Area Covered at Min.	
Focusing Distance	5" x 7"
Min. Diaphragm Setting	f/22
Depth of Field Scale	Visifocus
Length of Infinity	17/8"
From Outside Diameter	35mm
Weight	6 oz.
Filtersize VI with filter adapter	#502



SWITAR 10mm (5/8") f/1.6 Rx with pre-set diaphragm device

with pre-set diaphragm	device
Usable on	Rex
Angle of View	52° x 38°
Min. Focusing Distance	1" from lens
Area Covered at Min.	
Focusing Distance	1½" x 2"
Min. Diaphragm Setting	f/22
Depth of Field Scale	Visifocus
Length at Infinity	21/4"
Front Outside Diameter	40mm
Weight	5 oz.
Filtersize	5.5 drop in
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SWITAR 16mm (5/8") f/1.8 Rx

STATISTIC TOTALL (/6) 1/ 1.0 IXA
Usable on	Rex
Angle of View	34° x 25°
Min. Focusing Distance	8"
Area Covered at Min.	
Focusing Distance	3" x 4"
Min. Diaphragm Setting	f/22
Depth of Field Scale	Visifocus
Length to Infinity	11/4"
Front Outside Diameter	35mm
Weight	5 oz.



CINOR 25mm (1") f/1.8

	/ -1
Usable on	M and Rex
Angle of View	22° x 16°
Min. Focusing Distance	11/2'
Area Covered at Min.	
Focusing Distance	4½" x 6"
Min. Diaphragm Setting	f/22
Depth of Field Scale	Engraved
Length at Infinity	21/2"
Front Outside Diameter	39.5mm
Weight	6 oz.
Filtersize	5.5 drop in



SWITAR 25mm (1") f/1.4 Rx

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Usable on	Rex
Angle of View	22° x 16°
Min. Focusing Distance	11/2'
Area Covered at Min.	
Focusing Distance	41/2" x 6"
Min. Diaphragm Setting	f/22
Depth of Field Scale	compass
Length at Infinity	11/8"
Front Outside Diameter	35mm
Weight	5 oz.



MACRO-SWITAR 26mm (1") f/1.1 Rx

with pre-set diaphragm device

with pre-set diapinagin	device
Usable on	Rex
Angle of View	22° x 16°
Min. Focusing Distance	71/2"
Area Covered at Min.	
Focusing Distance	1½" x 2"
Min. Diaphragm Setting	f/22
Depth of Field Scale	Visifocus
Length at Infinity	21/2"
Front Outside Diameter	40mm
Weight	6 oz.
Filtersize	5.5 drop in



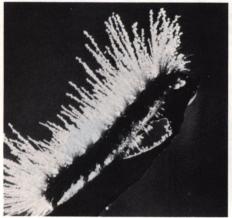


MACRO-SWITAR 75mm (3") f/1.9

with pre-set diaphragm device

Usable on Angle of View 7° x 5° Min. Focusing Distance Area Covered at Min. Focusing Distance Min. Diaphragm Setting Depth of Field Scale Length at Infinity Front Outside Diameter Weight Angle Mand Rex 7° x 5° Min. Diaphragm Setting 5½" x 8½" 5½" x 8½" 5½" x 8½" 43.5mm 8 oz.











MACRO-YVAR 100mm (4") f/2.8

Usable on Angle of View Min. Focusing Distance Area Covered at Min. Focusing Distance M and Rex 5½° x 4°

3" x 4"

Min. Diaphragm Setting Depth of Field Scale Length at Infinity Front Outside Diameter Weight Filtersize f/22 Visifocus 5³/4" 33.5mm 6 oz. VI drop in



MACRO-YVAR 150mm (6") f/3.3 with pre-set diaphragm device

Usable on Angle of View Min. Focusing Distance Area Covered at Min. Focusing Distance M and Rex 3½° x·2½° 6'

3" x 4"

Min. Diaphragm Setting Depth of Field Scale Length at Infinity Front Outside Diameter Weight Filtersize f/32 Visifocus 8" 43.5mm 12 oz. VI drop in

16mm EXTENSION TUBES. For extreme close-up filming with fixed focal length lenses from 25mm to 150mm focal length. Permit covering areas as small as 5/16". Can be used on all Bolex H-16 and other 16mm C-mount cameras. Set consists of 4 tubes: 5, 10, 20, and 40mm long.



BOLEX BELLOWS EXTENSION UNIT. When using this accessory with Bolex H-16 Rex cameras, filming with continuous focusing from infinity to lifesize 1:1 magnification is possible without the need to remove or change any part of the camera or lens. The unit mounts quickly to the camera by two turret screws. Focusing is controlled by a pre-

cision geared control knob. Equipped with a diaphragm pre-selector lever, 5" long engraved optical bench showing bellows extension and the necessary exposure increase. Supplied with special Yvar 75mm lens, adapters to use Switar 25mm lenses and bellows sunshade.

Weight: 1 lb. 5 ozs. Length: 6" Bellows: 2" square.



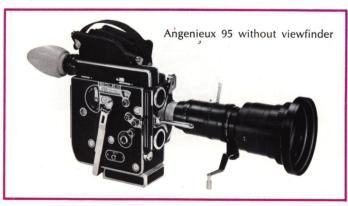




ANGENIEUX 95

9.5 to 95mm zooming range





The Angenieux 95 with viewfinder is designed for "C" mount cameras and is recommended for use with the H-16 M camera. The viewfinder of the lens fits over the top of the Bolex H cameras forming a compact lens and camera combination. The viewfinder has a center ground glass for focusing. Slow, smooth zooming with built in geared crank. Fast zooming with 1" zoom lever. Lens supplied in velvet-lined storage case.

The Angenieux 95 without viewfinder is optically corrected for the Bolex H-16 Rex cameras. Specifications are the same as for the lens with the viewfinder except that focusing is done through the reflex viewing system of the camera and no viewfinder is necessary.

Focal length range	9.5-95mm (10:1 ratio)
Minimum aperture	f/22
Maximum aperture	f/2.2
Field of view	7½° to 68°
Minimum focusing distance	30"
Area covered at 30" in	
9.5mm position	28" x 21"
Area covered at 30" in	
95mm position	21/2" x 2"
Length at infinity w/sunshade	9"
Length at infinity w/o sunshad	e 8½"
Weight w/VF	31/2 lbs.
Weight w/o VF	23/4 lbs.
Filtersize	special 103.5mm



ANGENIEUX 120

12-120mm zooming range





The Angenieux 120 with viewfinder is designed for "C" mount cameras and is recommended for use with the H-16 M cameras. The viewfinder of the lens fits over the top of the Bolex H cameras forming a compact lens and camera combination. The viewfinder has a center ground glass for focusing. Slow, smooth zooming with built in geared crank. Fast zooming with 1" zoom lever. Lens supplied in velvet-lined storage case.

The Angenieux 120 without viewfinder is optically corrected for the Bolex H-16 Rex cameras. Specifications are the same as for the lens with the viewfinder except that focusing is done through the reflex viewing system of the camera and no viewfinder is necessary.

Focal length range	12-120mm	(10:1	ratio)	
Minimum aperture			f/22	
Maximum aperture			f/2.2	
Field of view		6°	to 56°	
Minimum focusing distance			5'	
Area covered at 5' in 12mm p	osition	36''	x 27''	
Area covered at 5' in 120mm	position	33/4"	x 23/4"	
Length at infinity w/sunshade			81/4"	
Length at infinity w/o sunshac	de		73/4"	
Weight w/VF		2 lbs.	6 oz.	
Weight w/o VF		13	/4 lbs.	
Filtersize		Sei	ries IX	

Close-up Attachment (1.55m - 0.85m) f/Angenieux 120: For distance from 34" to 61". Area coverage at min. distance: $2" \times 11/2"$ in teleposition, $20" \times 15"$ in wide angle.



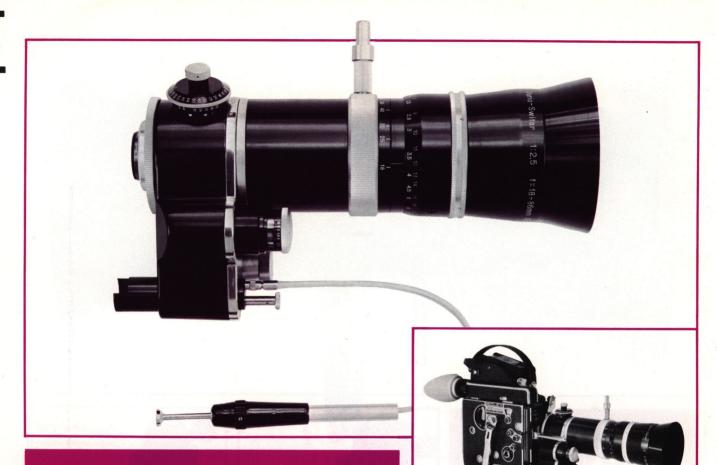
ACCESSORIES FOR ANGENIEUX 120

Close-up Attachment (0.87m - 0.65m) f/Angenieux 120: For distance from 26" to 34". Area coverage at min. distance: $1\frac{1}{4}$ " x 1" in teleposition, 12" x 9" in wide angle.



UV Filter f/Angenieux 120: For distance shots and color filming in shaded areas.





VARIO SWITAR 86-0E

18-86mm zoom lens with automatic through the lens exposure control

Vario Switar 86-OE: This automatic 16mm zoom lens was designed and built by Kern-Paillard exclusively for the H-16 Reflex camera. It comes from the distinguished line of Switar lenses and measures the light directly through the lens. Smooth and continuous zooming from 18 to 86mm with consistent exposure assured from the fully automatic diaphragm. It is equipped with a sensitive cadmium sulphide photo resistor and can be adjusted for film sensitivities from 10 to 200 ASA at camera speeds from 12 to 64 f.p.s. Manual diaphragm setting and controlled automation by limiting diaphragm movement provide the most versatile exposure system.

Maximum optical correction designed into the lens offers perfect quality at all focal lengths between 18 and 86mm. Automatic pre-set diaphragm arrangement opens lens diaphragm for focusing and returns it to the pre-set aperture before exposure. For convenience pre-set aperture control and release mechanism is combined with zooming lever.

The Vario Switar 86-OE/Rex camera combination offers convenience, simplicity, high accuracy of exposure and has become invaluable for time lapse photography because it adjusts itself automatically to prevailing light conditions (change between morning, noon or evening, cloudy or bright days, also for indoor work). It can be left unattended except for film reload, yet it will produce automatically, perfectly exposed films at all times.

Focal length range	18-86mm
Minimum aperture	f/16
Maximum aperature	f/2.5
Field of View	6½° to 30°
Minimum focusing distance	51/4'
Area covered at 51/4' in 18mm position	27" x 19½"
Area covered at 51/4' in 86mm position	5½" x 4"
Length at infinity w/sunshade	83/4"
Length at infinity w/o sunshade	73/4"
Weight	21/2 lbs.
Filtersize	Series VIII

ACCESSORIES FOR VARIO SWITAR 86

Close-up Attachment A (1.6m- $5\frac{1}{4}$ ft.): For distances from $3\frac{1}{2}$ to 6. Area coverage at min. distance $2\frac{3}{4}$ " x 2" in teleposition, and $13\frac{1}{2}$ " x 10" in wide angle. (Shown)



Close-up Attachment B (0.8m-3 ft.): For distances from $2\frac{3}{4}$ to $3\frac{3}{4}$. Area coverage at min. distance $1\frac{7}{8}$ " x $1\frac{3}{8}$ " in teleposition, 9" x $6\frac{1}{2}$ " in wide angle.

#417 Cable release: Permits coupling of Bolex H grip, lens and camera.



Pan Cinor 85-2: For use with all 16mm Bolex and other "C" mount cameras. The Pan Cinor 85-2 is supplied with its own reflex viewfinder with adjustable eyepiece and eyecup. The brightness of the finder image does not change when stopping down the lens diaphragm and provides ideal viewing in all lighting conditions. A coincident image rangefinder aids in focusing. When used on the non-reflex Bolex H-16 cameras, the viewfinder can be placed over the top to form a compact 16mm zoom camera. On the H-16 Rex, the finder is placed at a 45° angle to the side.

The Bolex "Assistant Coach": The H-16 M camera / Pan Cinor 85-2 zoom lens combination has been aptly named the "Bolex Assistant Coach" because with its bright reflex viewing system and vast optical possibilities, it is the ideal equipment for filming football games and other sports events; thus permitting the sports coach to analyze and

review a game step by step on film. Exclusive auto spool ejection and self-threading feature and more, permit easy and swift camera loading which prevents the loss of valuable action footage.

Focal length range	17-85mm
Minimum aperture	f/16
Maximum aperture	f/2
Field of View	6½° to 32°
Minimum focusing distance	6′
Area covered at 6' in 17mm position	33" x 25"
Area covered at 6' in 85mm position	6½" x 5"
Length at infinity with sunshade	8''
Length at infinity w/o sunshade	7''
Weight	21/4 lbs.
Filtersize	Series VIII

Close-up #III (2m-6 ft.) f/Pan Cinor 85, 70 and 100: For distances from 39" to $6\frac{1}{2}$ '. Area coverage at min. distance $3\frac{1}{2}$ " x $2\frac{1}{2}$ " in teleposition, 17" x $12\frac{1}{2}$ " in wide angle.



ACCESSORIES FOR PAN CINOR 85-2

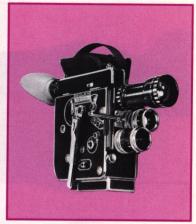
Close-up #IV (1m-3 ft.) f/Pan Cinor 85, 70 and 100: For distances from 30" to 44". Area coverage at min. distance $2\frac{1}{4}$ " x $1\frac{5}{8}$ " in teleposition, $11\frac{1}{2}$ " x $8\frac{1}{2}$ " in wide angle.

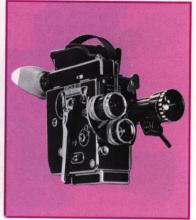


Filter Adapter f/Pan Cinor 85: Permits using 2 filters or one filter and one close-up lens on Pan Cinor 85, 70 or 100.









PAN CINOR 85 COMPACT

17-85mm zooming range

Pan Cinor 85 Compact. This lightweight lens is designed in a compact fashion to permit mounting it on the turret of Bolex H-16 Rex cameras in combination with regular lenses, including the Switar 10mm f/1.6. This lens permits combining the advantages of a zoom and turret camera. The filmmaker has a choice of using a zoom or regular lens by simply rotating the turret. The recommended lens combination is: Switar 10mm or 16mm wide angle, standard 26mm and Pan Cinor 85 Compact. The regular lenses would be used when larger diaphragm openings are necessary (up to f/1.1) when extremely large areas are to be covered, requiring the 10mm extreme wide angle.

The Pan Cinor 85 Compact can also be used alone, thereby forming a compact 16mm zoom camera, weighing 63/4 lbs. Pan Cinor 85 Compact is designed specially for H-16 Reflex cameras and is supplied without finder.

Focal length Range	17-85mm
Minimum Aperture	f/22
Maximum Aperture	f/3.8
Field of View	61/2° to 32°
Minimum Focusing Distance	31/2'
Area covered at 31/2' in 17mm position	19" x 14"
Area covered at 31/2' in 85mm position	33/4" x 23/4"
Length at Infinity with sunshade	51/4"
Length at Infinity w/o sunshade	33/4"
Weight	10 oz.
Filtersize	Series VII

ACCESSORIES FOR PAN CINOR 85 COMPACT

Close-up Lens #563 for Pan Cinor 85 Compact (VII-1m-3 ft.): For filming at distances from 24" to 43". Area coverage at min. distance: 1%" x 1%" in telephoto position; $9\frac{1}{2}$ " x 7" in wide angle.







Macro Zoom Attachment for Pan Cinor 85 Compact (13/4" diameter): A specially designed close-up lens unit that permits lifesize close-ups without loss of sharpness. Mounts in front of Pan Cinor 85 Compact. Area coverage, 5/16" x 1/4" in telephoto position; 11/2" x 11/8" in wide angle.

BOLEX MOTOR DRIVES

BOLEX UNIMOTORS

The Unimotors drive Bolex H-16 cameras at speeds from 12 to 32 f.p.s. They are easily and quickly mounted to the 8 frame shaft on the camera body without the use of any special tools. The motor can be operated directly on the camera or from a distance by means of an extension cord, ideal for wildlife filming. The running speed of the camera is adjusted by the speed dial as for filming with the spring motor. The motors are compact (4" x 3" x 2½") and lightweight (1 lb. 6 oz.). The Unimotors are the proper choice for silent filming where a low priced motor drive is desired or when filming at variable speeds is necessary. The Unimotors are available in two versions:



UNIMOTOR #800: The Unimotor #800 is designed exclusively for 100' cameras and cannot be used in combination with the voltage regulator or the 400' take-up motor. It is the least expensive motor for the 100' cameras and permits variable filming speeds from 12 to 32 f.p.s. Runs forward only.

In addition to dry cell batteries, the Unimotor #800 can be driven from 110V AC through any transformer which is built to take 0.6A and delivers the following output voltage:

18-Volts for filming at 12 to 16 f.p.s. 24-Volts for filming at 18 to 24 f.p.s. 30-Volts for filming at 32 f.p.s.



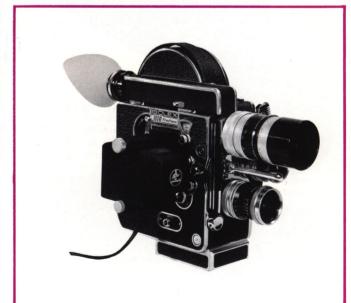
UNIMOTOR BATTERY CASE: Holds up to 5 batteries and Unimotor. With terminal plate to which the batteries are pre-connected. For use, the Unimotor is simply connected as the clearly marked sockets on the plate. Brown leather with shoulder carrying strap.

Size: 81/2" x 51/2" x 51/2"

Weight: Case with 4 batteries: 7½ lbs. Case with 5 batteries: 9 lbs.

Five 6 volt dry cell batteries (Eveready #510S) for battery case with terminal plate







UNIMOTOR B #802: It can be used alone on the 100' capacity cameras in which case it is driven by five 6-volt batteries in case #810 or it can be used together with the Voltage Regulator on both the 100' and the 400' cameras in which case six 6-volt batteries in case #813 are necessary. The Unimotor B can be operated with the electric camera grip #787 and can be used for rewinding film in the 100' camera.



VOLTAGE REGULATOR: The voltage regulator is used when driving the 400' Bolex H cameras at any speed from 12 to 32 f.p.s. with the Unimotor B. It is also necessary when battery pack #813 is used to drive the 100' cameras. It is mounted easily on the camera without special tools underneath the Unimotor and is connected by a cord directly to the Unimotor. The speed of the camera is adjusted by a dial on the side of the voltage regulator. The voltage regulator is coupled to an aluminum battery pack #813. Weight: 11 oz.

Size: 51/4" x 2" x 21/4"

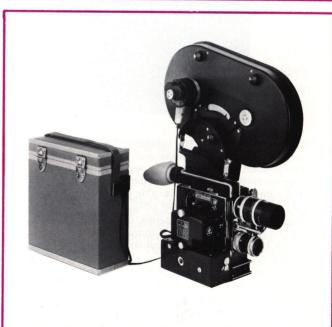
Supplied with $6\frac{1}{2}$ power cable, Unimotor B and take-up motor, connecting cord.

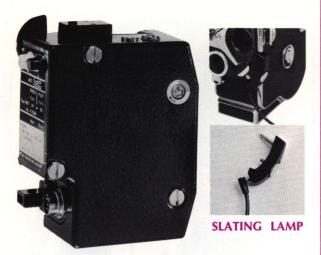


ALUMINUM BATTERY PACK #813: This convenient to carry aluminum carrying case with shoulder strap will hold six 6-volt dry cell batteries. The batteries are connected in series by means of two printed circuit plates. The outlet for connecting the motor is on the exterior of the case. It is used whenever the 100' or 400' Bolex cameras are driven by the Voltage Regulator/Unimotor B combination. (With battery pack #813, the voltage regulator must be used even if the camera is not equipped with the 400' magazine).

Weight: 2 lbs., case alone 10½ lbs., with six batteries Size: 9" high, 8½" wide, 3" deep







MST MOTOR: This constant speed motor can be used on the 100' or 400' capacity H-16 cameras. In either case it is driven by the rechargeable battery pack #808. It drives the cameras with or without 400' magazine at exactly 24 f.p.s. and is equipped with a sync generator for synchronous double system sound recordings in the studio or field. The motor is easily attached to cameras with the one frame shaft and is supplied with a 23" remote control cable. Starting and stopping the motor is by pressing or releasing the large button in front of the motor or by the 23" remote cable. A light in the back of the motor indicates when the motor has attained the correct speed. The motor incorporates an automatic clap-stick device which can be connected to a slating lamp in the Rex turret. The motor is also equipped with a continuous run lock and with a reverse button for rewinding the film in the 100 foot version of the camera. The constant speed motor is the proper choice for sync sound filming or silent filming at 24 f.p.s. when the smallest and lightest power pack is desired.

Weight: 2 lbs. Size: 4" x 5½" x 2"



TAKE-UP MOTOR: This motor is used with the Bolex 400' magazine. It bayonets directly on the magazine eliminating the need for an awkward trouble-prone drive belt mechanism. Only one motor is necessary regardless of the number of magazines used. The power to drive this small 12 volt DC motor comes from the rechargeable battery pack through the MST motor or from the aluminum battery pack #813 through the Unimotor B and voltage regulator.

Weight: 8 oz.

Size: 21/4" x 21/4" diameter.

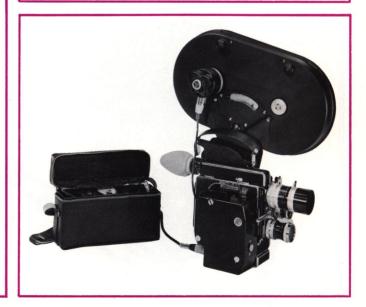


RECHARGEABLE BATTERY PACK: This 12-volt battery is always used with the MST Constant Speed Motor whether it is used on the 100' or 400' camera. It will drive the Bolex constant speed motor for approximately twenty-five 100' rolls of film when fully charged. The battery pack includes a built-in charger and easily visible voltmeter which indicates if the battery pack is in charged or discharged condition. The pack is supplied with two cords—one for attaching to the motor, the other for charging from an AC outlet. A plug is supplied for connecting a tape recorder. Motor comes in an attractive light grey leather carrying case with shoulder strap.

Weight: 3 lbs. 8 oz. Size: 8" x 4½" x 2½"



CONNECTING CORD: This cord is used to connect the 12V take-up motor to the constant speed motor.



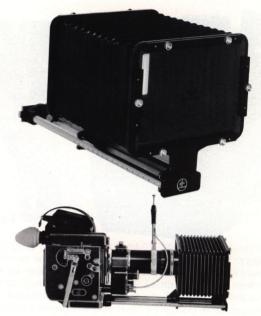


400' MAGAZINE: This single chamber compact and lightweight magazine mounts quickly on the Bolex H-16-5 camera. The magazine will take 400 feet of single or double perforated film, plain or striped on standard cores or 200 feet of film on standard 200' reels. The 200' reels can be loaded in daylight. The film on 400' cores must be loaded in a darkroom or changing bag. The large footage counter has two scales—one for 400' cores and one for 200' reels. The magazine is carefully slanted so that it does not interfere with the reflex viewing. Weight: 2 lbs. 13 ozs. Size: 13½" x 8" x 2".



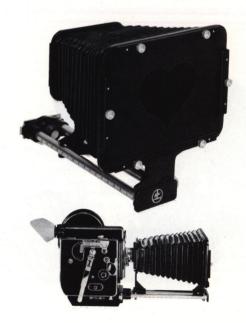
Film guide rollers on feed and take-up side of magazine keep film tight and evenly wound. The feed film guide is connected to the large footage counter on the side of the magazine. Roller on film feed guide is removable. Two rollers are supplied. The larger and wider roller is used for films on cores; the smaller and shorter for films on reels. A spring clip inside the magazine holds the roller which is not in use.



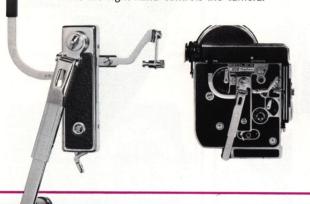


BOLEX MATTE BOX: The Matte Box can be used with all H cameras but is especially recommended for Rex cameras, where the reflex viewing permits exact analysis of the desired effect. It enables the production in the camera of many professional effects such as masking scenes, silhouettes, split-screen techniques, wipes, titling, simplified animation. Naturally, the Matte Box also serves as the finest form of lens shade and as a gelatin filter holder. The Matte Box mounts on base built into the latest H cameras. Matte Box is supplied with pre-cut keyhole, binocular, and heart masks, several blank masks, acetate sheets, and glassplates for rear and front frame.

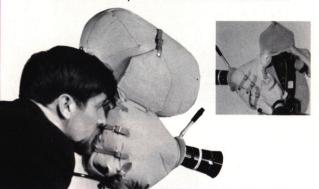
The Matte Box is available in two versions: #617 with maximum 12" extension from camera for use with zoom and regular lenses. #615 compact version with a $4^{1/2}$ " maximum extension for use with fixed focal length lenses up to 26mm.



REX-O-FADER 40: Used with the variable shutter to automatically make precisely 40 frame fades and lap dissolves. Installation is simple and operation is easily managed with the left hand by manipulating the contoured control lever while the right hand controls the camera.



REPORTER BLIMP: Designed for use with the 400' Bolex equipped with the Vario Switar 86-OE lens, this blimp insures maximum absorption of noise. It is composed of several layers of foam rubber, hard felt and grey plastic. Both the Constant Speed Motor and Unimotor B can be easily operated with the blimp on the camera. Available soon.



BOLEX SUPER TITLER: The Super Titler can be used with any H camera. It is suitable for adding elaborate or simple effects of all types with professional results. The Titler consists of two units which can be supplied separately as: Basic Titler and Accessories.

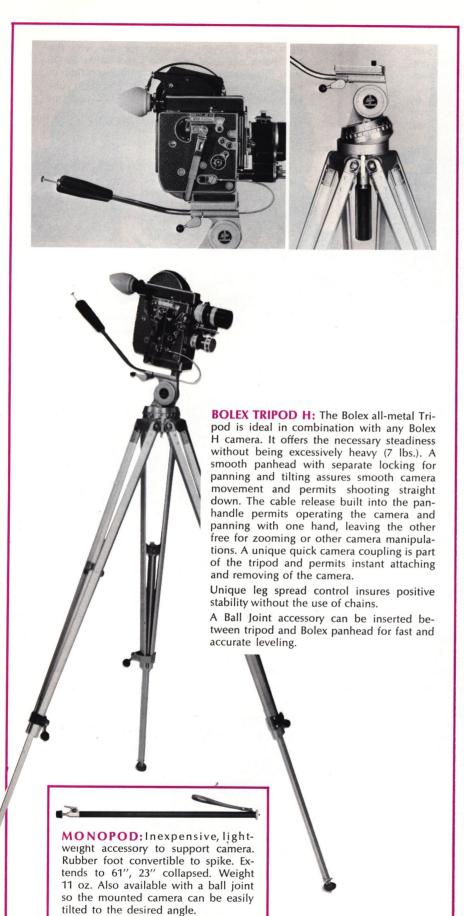
Basic Titler: Consists of an optical bench with a max. filming distance of 26", reflectors, centering target, camera carriage and titling frame in two parts made for titling boards up to 12½" wide. Basic unit is used for simple titles and makes an ideal stand for close-up filming, copying, and cinephotomicrography.

Accessory Kit: Includes a sliding table, flipover plates, turntable, drum, scroll device, animation plate and hand crank which permit producing all types of titling effects, television commercials and animation. All accessories are easily interchanged without the use of tools. The black anodized accessories can be covered with the special felt covers supplied or with other background material to which regular titling letters can be attached.



LENS AND ACCESSORY SUPPORT: A versatile accessory for all Bolex H, and some other still and movie cameras, which consists of an accurately machined miniature optical bench, 20" long with 12" and 271/2" extension rods, an adjustable lens support with lock for lenses up to 4" in diameter, and a titling frame, $8\frac{1}{4}$ " x $6\frac{1}{2}$ ", with an inside opening of 7" x $5\frac{1}{4}$ ". This accessory serves for supporting heavy and long telephoto lenses. The supporting bracket is adjustable in its height and distance from the camera, from 2" to 45", to take telephoto lenses of many lengths and diameters. The support serves furthermore for mounting the Matte Box in front of long telephoto lenses; as a stand for macro filming, and as a small portable titling unit. WEIGHT: Main frame with lens support or titling frame, 3 lbs., 14 ozs. Complete unit, 7 lbs., 8 ozs.







CAMERA GRIP: This handsome metal grip is designed specifically for all Bolex H cameras with built-in camera base. Quick coupling device permits instant mounting and removal or switching camera from grip to Bolex tripod or Bolex Super Titler. Built-in trigger is coupled to side release of camera and is adjustable for normal or continuous running.

An adjustable leather strap can be mounted for left or right hand operation. Tripod socket permits mounting camera grip equipped camera on tripod or monopod. Weight: 1 lb. For use with Vario Switar 86, the trigger on the camera grip can be connected to the automatic pre-set diaphragm on the lens by means of a special cable release, No. 417.

Camera Cable No. 417

Permits operation of the automatic pre-set diaphragm on Vario Switar 86 lenses by means of camera grip trigger release.



ELECTRIC CAMERA GRIP: This metal grip is designed for use specifically with the MST motor and unimotor and is connected to the motor by an electric cord. The quick coupling device and adjustable support strap are the same as on the H camera grip.

LIGHT METER FOR H CAMERAS: The Bolex H exposure meter is manufactured by Gossen expressly for Paillard. It is a Cadmium Sulphide photo resistor type using Mallory battery PX-13. Designed to measure both reflected and incident light, it is calibrated specially for the "adapted" shutter speeds of the Rex camera but can also be used with all other H models. The Bolex exposure meter fits into a shoe with which the H model Bolex cameras are equipped. This shoe can also be installed on other models. Measuring angle is 12°. Sensitivity ratings of meter is 6 to 1600 ASA at camera speeds from 12 to 64 fps and it can be adjusted to different Variable Shutter settings.



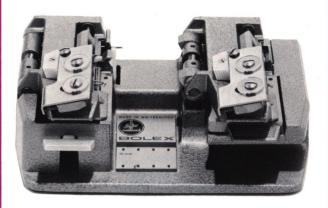


LIGHT METER ADAPTER. This little adapter mounts on the accessory shoe on the camera where the H lightmeter usually fits. It brings the Bolex H lightmeter to the side of the 400' magazine where its scales are easily visible.

BOLEX UNDERWATER HOUSING: This Bolex housing accommodates 100' H cameras and is watertight down to depths of 330'. Easy and convenient winding of spring motor and aperture adjustment can be made while underwater. It is equipped with a parallax corrected viewfinder. The housing is supplied with the diaphragm collar for Switar 10 or 16mm wide angle lenses which are usually used underwater. Specify lens when ordering. Size: 14" x 13" x 12"

Weight: Out of water without camera, 22 lbs.; Immersed,





16mm BOLEX SPLICER: The most modern and satisfactory splice in 16mm films is made with the Bolex splicer. Rather than overlapping the two films as has been done in the past, this splicer scrapes both film ends at an angle and cements the films together, practically flush. The spliced film, therefore, never loses contact with the soundhead and never lifts the projector pressure plate while running through the film gate, thereby causing a noise, or jump or out-of-focus image on the screen. Also available in a version for 8 and Super 8 film.



BOLEX AUTOMATIC SELFTIMER MODEL A: It starts the camera operating 6 seconds after the timing mechanism has been set, for a scene of from 5 to 20 seconds and then stops the "take". Ideal when the moviemaker wants to get into the picture himself. Selftimer is connected to the cable release adaptor #431 (to be ordered separately.)



H-20 CABLE RELEASE: For maximum camera steadiness, for titles, animation, and all other single frame work, a cable release is a must. A 21" metal cable release is specially made for all Bolex H cameras. Supplied with a special attachment, #431, that fits over the side release button and permits continuous or single frame filming with or without the Rexofader attached.

H-40 CABLE RELEASE: Same as above, but 40" long.

CABLE RELEASE ADAPTER: Fits over the side release on all H cameras and permits continuous or single frame filming with or without the Rexofader attached.

LEATHER CARRYING CASES

The leather cases are manufactured in England expressly for Bolex equipment. Made of first grade cowhide they are sewn to last and equipped with sturdy handgrips and locks.

16mm ZOOM CAMERA LEATHER CASE B: Holds the Bolex H cameras with the exception of the H-16 Rex-5 with regular lenses up to 6" focal length or equipped with Vario Switar, Angenieux 120, or Pan Cinor 85 zoom lenses. There is enough

room to store Matte Box and other large accessories. Dimensions: 191/2" x 10" x 8"

Weight: 61/2 lbs.





LEATHER CARRYING CASE H-1B: This case will accommodate the Bolex H-16 cameras, with any set of prime lenses up to 75mm focal length or with Pan Cinor 85 Compact. Additional room is provided for extra film, filters and other small accessories. Dimensions: 14½" x 11" x 6½"

Weight: 6 lbs.



ALUMINUM CARRYING CASES

The cases are designed to withstand the most rugged use and at the same time protect your valuable Bolex equipment. The cases are watertight, and utmost consideration has been taken to keep the cases as lightweight as possible. A much valued feature found in the #455 and #456 cases is the possibility of easily rearranging certain compartments by removing and repositioning braces equipped with special nylon hooks.



CASE #457: This case was designed especially to carry three extra 400' magazines. When used with only two magazines, it will also hold one take up motor and the power pack.

Dimensions: $14\frac{1}{2}$ " x $8\frac{1}{2}$ " x $10^{1}/2$ "

Weight: 7 lbs.

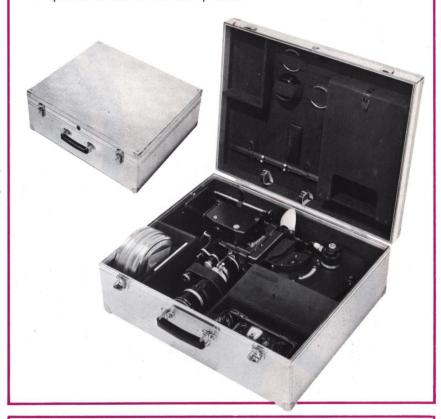


CASE #456: This case will hold the Bolex H-16 camera with attached 400' magazine, 12V take-up motor, MST constant speed motor, electric grip, and any combination of fixed focal length or zoom lenses. There are separate compartments for additional magazines, Electric motor drives, Power Pack, Matte Box w/long rails, Monopod, 3 or 4 400' rolls of film, Lenses and other miscellaneous accessories.

Dimensions: 231/2" x 191/2" x 81/2"

Weight: 19 lb. empty

37 lbs. equipped with camera, one magazine, zoom lens, MST constant speed motor and 12 volt take-up motor.



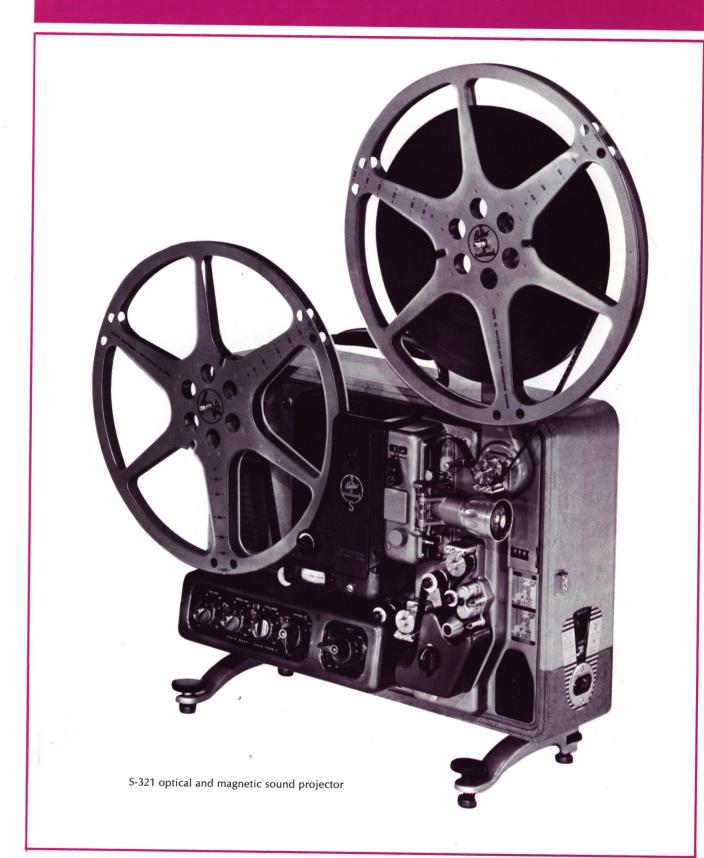
CASE #455: This case will hold any Bolex H camera equipped with the MST constant speed motor or Unimotor with any combination of zoom or regular fixed focal length lenses mounted on the camera. Additional space is provided for the Power Pack, Matte Box and small accessories. The case will not hold at 400′ magazine either attached or detached from the camera.



Dimensions: 17½" x 8½" x 10" Weight: 8 lbs.



BOLEX 16mm SOUND PROJECTORS



Perfect Bolex film quality must be matched with perfect projection to actually see the sharp, crisp images that Bolex cameras record. Bolex 16mm projectors, the S-311 for optical sound and the S-321 for both optical and magnetic sound, have been carefully designed to include all the latest technical advances and constructed according to Old World Swiss traditions of superb craftsmanship. The Bolex S-321 Optical/Magnetic & Sound Projector is supplied with microphone, earphones, 2,000 ft. reel and 50mm lens.

The Bolex S-311 Optical Sound & Projector is supplied with 2,000 ft. reel and 50mm lens.

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Sound Projector is supplied with microphone, earphones, 2,000 ft. reel and 50mm lens.

The Bolex S-311 Optical Sound & Projector is supplied with 2,000 ft. reel and 50mm lens.

THE BOLEX S-311

- Projects silent films with single or double perforation.
- Projects films with an optical track.
- Can be used as a complete PA system for music and/or narration.
- Permits mixing of an optical sound track with live narration.

THE BOLEX S-321

- Projects 16mm silent films single or double perforation.
- Projects films with an optical sound track.
- Projects films with a magnetic sound track, single or double perforation.
- Records, superimposes, mixes, erases magnetic track.

PICTURE QUALITY. A unique optical system is built into the Bolex sound projector to provide maximum brightness and equal light distribution. Lamp is 110 volt, 750 or 1,000 watt. Condenser has three coated lenses. Variable shutter for two or three light interruptions per frame can be changed while machine is running. Three projection lenses available: 35mm f/1.3, 50mm f/1.3 and 70mm f/1.6.

CONSTRUCTION QUALITY. Every one of the parts of the S-311 and S-321 is precision machined. Universal type motor with high starting torque has variable speed from 16 to 24 f.p.s. and is accurately stabilized by a governor activated by electronic impulses. Built-in illuminated strobescope for precise setting of 18 and 24 f.p.s. Recording sound with the S-321 is made easy by the use of the reverse run and the frame counter.

SOUND QUALITY. High fidelity sound quality is obtained from the advanced sound head and amplifier which has independent controls for bass and treble. Separate volume controls for mixing and many other sound variations. The speaker is built into the projector cover.

OPTICAL SOUND HEAD:

- Frequency range: 50 to 7,000 cycles ± 3db.
- High precision scanner.
- Standard 4V 0.75 amp. exciter lamp fed by 40,000 cycle high frequency current,

- which eliminates hum. The lamp is precentered and easy to change.
- Large photo-electric cell with elastic suspension, shielded against microphonic effects.
- Focusing knob keeps scanner beam at maximum efficiency, regardless of whether emulsion or base side of film faces sound head.

AMPLIFIER:

- Frequency range: 30-16,000 cycles, ± 3 db. Audio power output: 15 Watt, sufficient even for large auditoriums.
- Two high impedance inputs: 1) for microphone; 2) for record-player, tape recorder or radio.
- Two independent input channel controls for mixing and transitional fades.
- Two output channels: 1) for speaker (6 ohms);
 2) for earphones (1200 ohms).
- Volume control.

MAGNETIC SOUND (S-321 only). Frequency range: 50 to 10,000 cycles ± 3 decibels for magnetic sound. Films with 100 mil, 50 mil, and 25 mil magnetic tracks can be used without special adjustments. Complete built-in mixer for narration, sound effects and background music. Possibility of overlaying sound effects and narration on previously recorded music (with overplay accessory).

CONVENIENT TO USE. Streamlined and compact, the S-311 and S-321 are easy to carry and to set up. The speaker in the cover can be removed, the spool arm positioned and the projector height adjusted in a matter of seconds. Loading is carried out rapidly and the projector controls are simple and are illuminated. An auxiliary socket for a table lamp is built in.

SIZE:

- Cover closed: 201/2".x 11" x 17"
- Cover removed, with spools: 251/2" x 17" x 31"
- Weight 55 lbs.

OVERPLAY UNIT FOR S-321: Volume of existing magnetic sound can be lowered to superimpose narration, music or sound effects.



MICROPHONE: The microphone can be used with the overplay unit for superimposition as illustrated here or can be hand held. The microphone is also used for narration when the projector is used as a PA system.

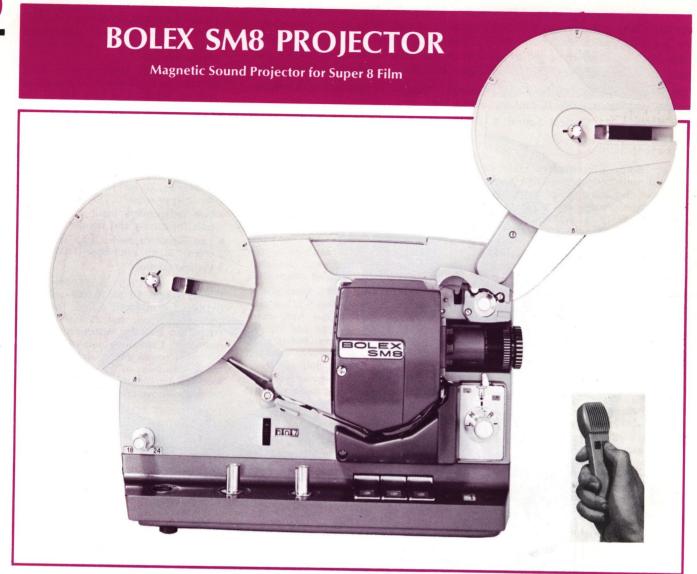


EARPHONES: Used for monitoring when making magnetic recordings on film.





ACCESSORY SPEAKER COM-PLETE: 12", 15 watt speaker with 50' electric cord on reel permanently connected to the speaker. Case has attractive finish to match projector. Sides fold down to form base. Easily portable with built in carrying handle. Complete with speaker volume control distributor. Space for many accessories. Weight: 281/2 lbs.



THE BOLEX SM8 MAGNETIC SOUND PROJECTOR for Super 8 film is the ideal projector for audio-visual demonstration films, photographed originally on 16mm film and reduced to Super 8.

Lectures, demonstrations of techniques, and promotional presentations take on a new dimension of interest when presented with sound fim.

The most important advantage of using the Super 8 prints reduced from 16mm is the wide distribution that can be achieved. Low cost and easy handling make this possible. The cost of quality 16mm prints with sound is always an important factor and widespread distribution of films could be limited because of this cost factor. However, reduction of 16mm prints to Super 8 is relatively inexpensive. When using Super 8 film there is the added advantage of easy handling. The film occupies approximately one-third the space of 16mm film and can be shipped more easily. The Bolex SM8 projector weighs only 25 lbs. and is carried easily.

With the Bolex SM8, optimum results are assured. The projector is equipped with

two motors—one to drive the mechanism and one for ventilation, a feature usually found only on expensive 16mm equipment to insure years of trouble free service. Illumination is from a quartz iodine lamp projected through an optically perfect f/1.3 lens for maximum projection brilliance. A zoom lens is also available. The 18 f.p.s. and 24 f.p.s settings make the projection of silent or commercially prepared Super 8 sound films possible. The main unit houses a built-in speaker and an accessory speaker is also available. With the accessory mixing console, the unit can be used as a P.A. system. Recording with the SM8 on original Super 8 film or 16mm reduction prints is easily accomplished. Super-imposition or complete erasure of background sound is controlled from the microphone.

Simplicity of operation makes this the ideal sound projector for use by anyone under practically all conditions—class-rooms, conference rooms, wherever a lecture, demonstration, or presentation is conducted. For full color brochure, write PAILLARD Incorporated, 1900 Lower Road, Linden, New Jersey 07036.



accessory mixing console

accessory speaker





The truly professional 16mm motion picture camera for news coverage and studio work in education, industry and scientific work. The camera is carried on the shoulder and held with both hands ensuring perfect picture steadiness. Technically the most advanced camera in its class. Available in either single or double system sound.

- Automatic loading
- Motor driven focusing control
- Stabilized 12 to 50 f.p.s. running speeds
- Forward, reverse and single frame filming possible
- Motor driven zoom control
- Automatic exposure control
- Ground glass or clear glass reflex viewing available
- Bright reflex viewfinder with 20X magnification
- Lightweight coaxial 400' magazine
- Remote control
- Noiseless camera operation
- Built-in magnetic sound recording unit w/monitoring possibilities available
- Sync pulse recording and filming possible
- Selection of lenses available

For further information, write:

Paillard Incorporated 1900 Lower Road Linden, New Jersey 07036

CAMERAS	The 400 Foot Bolex 4–5 H-16 Rex-5 6 H-16 Rex-4 6 Fully Automatic Zoom Reflex 7 H-16 M-5 8 H-16 M-4 8 Assistant Coach 9
LENSES	Prime Lenses and Accessories 11–13 Extension Tubes 13 Bellows Extension Unit 13 Zoom Lenses and Accessories 14–18
MOTORS	Unimotor
SUPPORTS	Lens and Accessory Support23Bolex Tripod H24Ball Joint24Monopod24Camera Grip H24Electric Camera Grip5,24
CARRYING CASES	26, 27
ACCESSORIES	400 Foot Magazine 5, 22 Matte Box 22 Rexofader 23 Reporter Blimp 23 Super Titler 23 Light Meter 25 Splicer 25 Self Timer 25 Cable Release 25 Underwater Housing 25
PROJECTORS AND ACCESSORIES	S-321 Magnetic/Optical Sound 28–29 S-311 Optical Sound 29 SM8 Super 8 Magnetic Sound 30

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