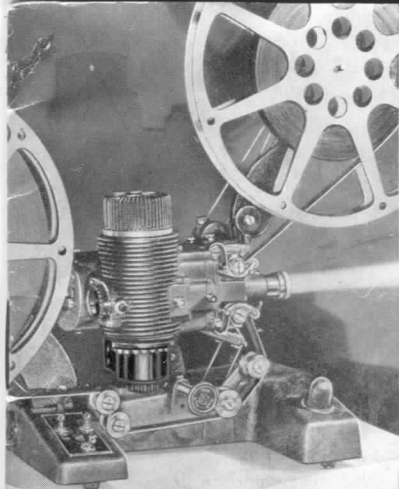


BELL & HOWELL

FILMO

16 MM. PROJECTORS



**Filmo Auditorium
Projector—1000-Watt**

Filmo 129—750-Watt

Filmo JS—750-Watt

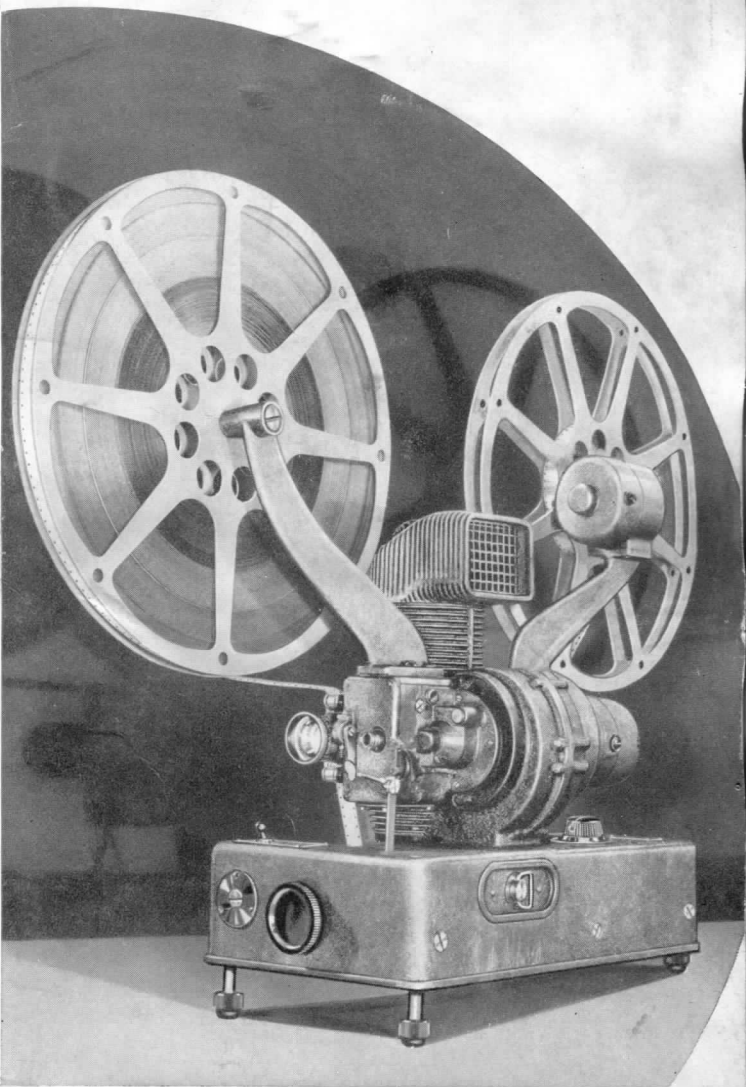
**Filmo S—750 and
500-Watt**

Projection Lamps

Projection Lenses

**Continuous Projec-
tion Attachments**

**Filmosound
16 mm. Sound-on-
Film Reproducer**



PROFESSIONAL RESULTS WITH AMATEUR EASE

In your 16 mm. projector

YOU NEED B&H QUALITY

*For best screen pictures . . . For constant dependability
. . . For ultimate economy*

TO reproduce the full beauty of good motion picture photography, a quality projector is indispensable. You'll never know how good your films really are . . . never know how much of their beauty you may have been missing because of inadequate projection . . . until you see them shown with a modern Filmo Projector.

Screened pictures must be steady and flickerless. They must be brilliant, even on the largest of screens that you may have occasion to use. Filmo Projectors ably meet these requirements. These machines are, as they have been for twelve years, generally conceded to be the finest available for showing 16 mm. films. And the present-day Filmos offer far greater illuminating power than former models. Lamps of 1000-, 750-, and 500-watt sizes are now standard equipment.

There are other considerations in selecting a projector which are equally as important as the picture quality achieved by a demonstrator.

Your projector must be so constructed that it will not only give the desired results when new, but will continue to perform excellently, with constant, uninterrupted dependability, for many years to come. In the two seasons of "A Century of Progress" Exposition in Chicago, a large number of Filmo Projectors were operated continually for ten and twelve hours a day, seven days a week, for ten months. This use was equivalent to showing two reels a day, 300 days a year, for twenty years! Nevertheless, when the 1934 Fair closed these Filmo Projectors were still giving the same fine service, the same fine picture results, as they did when originally demonstrated to their users! It pays to buy Bell & Howell quality.

Your films are often irreplaceable. Your projector must give them every protection from picture surface abrasion and from perforation wear. How Filmo Projectors excel in this respect is explained on the following pages. Here again it pays to buy Bell & Howell quality.

There are Filmo 16 mm. Projector models to meet every requirement, from the new 1000-Watt Model 130, capable in large auditoriums, to the moderately priced Model S. This booklet describes them all.

Prices quoted in this catalog are effective June 1, 1935, are quoted F.O.B. Chicago, Ill., and are subject to change without notice.

BELL & HOWELL COMPANY

Be guided by **FACTS**

Not every engineering advantage is apparent on the surface of a projector. This and the following page tell what is beneath the surface of a Filmo Projector . . . and what such construction means to the owner. Compare values . . . then you can buy wisely. Nowhere else can you even approach Filmo's superiority.

BRILLIANT PICTURES. The light source is a 1000-watt, 750-watt, or 500-watt biplane filament lamp, according to the model selected.

The shutter, being of the disk, focal plane type, permits the most efficient placing of condenser and lamp close to the aperture plate. This type of shutter gives the most uniformly bright screen illumination. The shutter's open segment, which obviously directly affects picture brilliance, is greater than found in many other projectors.

The lamp is rigidly locked in precisely its correct alignment on the axis of the optical system, as is necessary to utilize its full brilliance. This rigid locking is accomplished by virtue of the special B & H pre-focusing ring on the lamp base.

The condenser and reflector are instantly removable, without tools, for the occasional cleaning which is required to maintain their full efficiency.

The reflector has an external micrometer adjustment to assure correct alignment and uniform screen illumination, especially advantageous for movies in color.

STEADY, FLICKERLESS PICTURES.

The film is in motion at the aperture only 1/9th of the time it is being projected. The rest of the time the film is held absolutely stationary by side tension springs. Tests prove this 9 to 1 ratio scientifically correct. The low shutter frequency usually associated with lower ratios causes flicker. Higher ratios, because of rapid acceleration involved, impose more strain on film perforations.

UNIFORM SPEED. Gear drive from motor to mechanism insures uniform speed and virtual elimination of acceleration period with its flicker.

Friction type precision speed control, once correctly set, permits stopping and starting without the adjustments frequently required with rheostat speed controls to provide sufficient motor torque for starting.

COMPLETE FILM PROTECTION. Side tension springs control the film at the aperture. Surface tension springs, which press on the film emulsion, resulting in scratched film, are not employed in Filmo.

Shuttle tooth movement is straight in, straight down, and straight out, so that there is no "sawing" action to cause wear on the film perforations.

Sprockets are large, to avoid bending the film sharply.

The film travels in a straight line—no side twists which might strain the film and tend to open the splices.

Air cooling and an automatic safety shutter protect the film fully from heat.

EASE OF OPERATION. The Filmo Projector plugs into any light socket, 110- to 120-volt AC or DC, 25 to 60 cycle. Threading takes but a moment, facilitated by large sprockets and independently operated sprocket guards. A touch of the starting button puts the projector into action. Turning a knob tilts the projector to place the picture squarely on the screen. A slight turn of the lens and the focus is perfect. A manual framer per-

mits eliminating the visible frame line when projecting out-of-frame prints. Controls are spaced to prevent confusion in manipulation, even in the dark.

AERO DUAL COOLING. The lamp-house has heat-dissipating fins which supplement the cooling action of the forced air draft on the film at the aperture and on the lamp. This keeps the lamp within its maximum safe temperature, prolonging lamp life.

LAMP EASILY REPLACED. The lamp is removed by holding the coolest section—the base. Replacements can be made quickly, without using gloves or tools.

“METERED” LUBRICATION. At every revolution, vital moving parts of the Filmo mechanism contact oil felts which release exactly the correct quantity of oil. Under average personal use, monthly oiling is sufficient. A guard protects the film from oil.

HELICAL GEARS are recognized by modern engineering as necessary for quiet operation and long life. They are now used by leading automotive manufac-

turers, and for many years have been standard in Filmo Projectors.

DIE CAST ALUMINUM-ALLOY FRAME combines strength with light weight. Its high heat conductivity results in cooler operation. These accurately machined castings are interchangeable, assuring simple, completely satisfactory replacement in case of accidental damage.

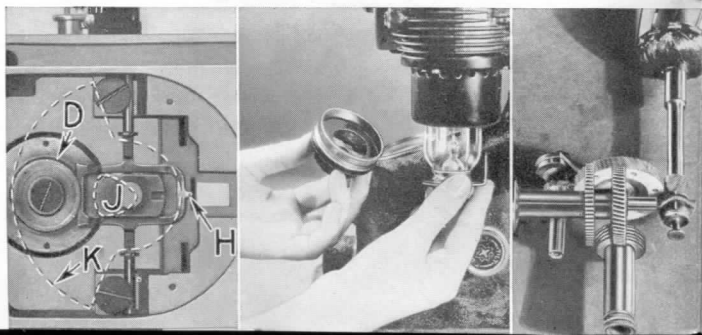
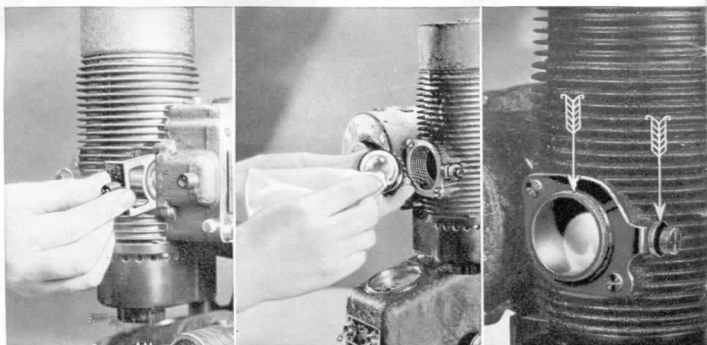
COLOR MOVIES. The great illumination provided by Filmo Projectors is especially desirable in showing color movies, since color film absorbs more light than monochrome. The critical sharpness, fine color correction, and brilliancy of B&H projection lenses make them especially suited for color projection.

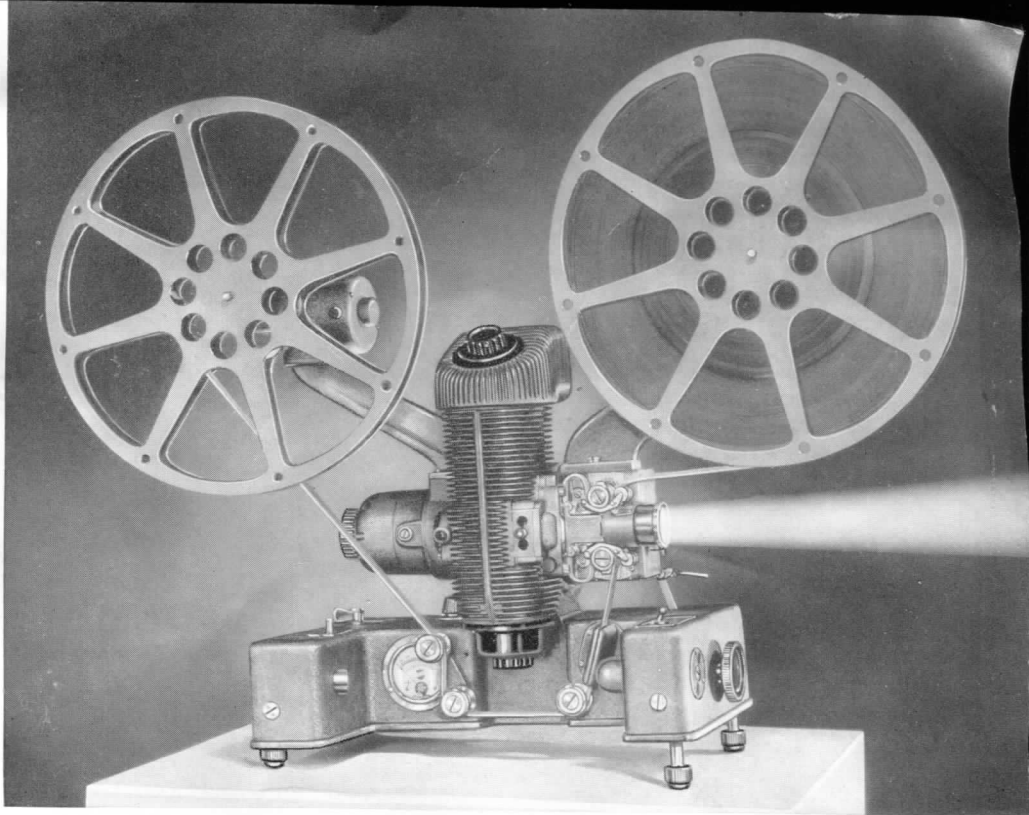
GUARANTEE

All Filmo Projectors are guaranteed against any defects in materials or workmanship, and this guarantee is backed by the Bell & Howell Company, world's largest producer of professional cinematography and pioneer in 16 mm. movie equipment.

Only in FILMO PROJECTORS will you find all these important features

1. The Filmo condenser is instantly withdrawn, by its external handle, for cleaning.
2. The Filmo reflector, too, is easily removable, without tools, for the essential cleaning.
3. A micrometer reflector adjustment, easily accessible, contributes to uniform illumination.
4. Shuttle tooth H moves in a rectangular path—no sawing on film perforations. Cam J imparts vertical movement; cam D imparts in-and-out movement.
5. Only in Filmo is the lamp removed by grasping its coolest portion, the base.
6. Helical gears, necessary for quiet operation and long life, are used in Filmo Projectors.





FILMO AUDITORIUM PROJECTOR, Model 130

Most powerful of 16 mm. projectors—1000-watt illumination. 1600-foot film capacity

THE new Filmo Auditorium Projector, Model 130, latest projector from the Bell & Howell Engineering Laboratories, marks a major advance in 16 mm. projection, extending the use of the safe, economical 16 mm. film even further into fields where previously only 35 mm. film would give sufficiently large, bright pictures.

Its great illuminating power recommends it for presentations before large audiences. Its 1600-foot film capacity permits a one-hour program without inter-

ruption. Its dependability and longevity are assured by the fact that it includes all the time-proved features of design and construction presented on pages one and two . . . features which are common to all Filmo 16 mm. Projectors. It may be operated on 100- to 120-volt, 25- to 60-cycle alternating current or on 100- to 120-volt direct current.

Add to the above-mentioned basic advantages the distinguishing features presented on the next page, and you have the new Filmo Auditorium Projector.

Filmo Auditorium Projector Features

1000-WATT LAMP. The most powerful light source ever used in a 16 mm. projector. Instigated by Bell & Howell and developed by the lamp manufacturer with the co-operation of Bell & Howell engineers.

VARIABLE LAMP RESISTANCE AND VOLT-METER. Permits precise control of the current voltage fed to the lamp, assuring maximum screen illumination (and permitting reduced illumination when desired) and preventing overloading the lamp and the resultant shortening of its life. Adequate for all line currents between 100 and 120 volts.

NEW OPTICAL SYSTEM. Results in an increase in illumination considerably greater than that attributable to the increase in lamp wattage.

B & H 2-INCH F 1.65 LENS. Great speed contributes to the projector's remarkable illuminating power. Fine optical quality results in sharp focus clear to the corners of the screen. Focusing is made quick by two-speed focusing mounting.

LENS INTERCHANGEABILITY. The standard lens may be replaced instantly with any one of a full range of extra lenses to meet special requirements, from the 0.64-inch for close quarters to the 4-inch for long throws. See page 11.

1600-FOOT FILM CAPACITY. Permits a full hour's show without a stop. Smaller reels, of course, may also be used.

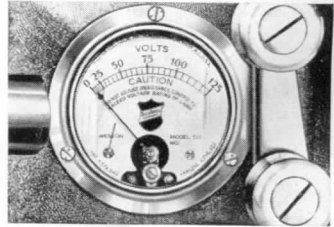
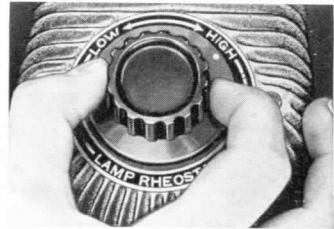
LOW CENTER OF GRAVITY. Very desirable in a large capacity projector.

VARIABLE SPEED. Electrical governor permits adjustment of operating speed from 16 to 24 frames per second.

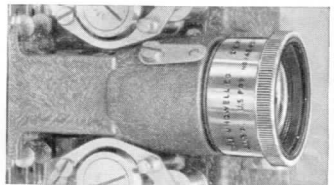
TWO-WAY TILT. Turning a knob at the base front tilts the projector upward; a knob at the rear elevates the rear for a downward tilt.

TAKE-UP BY SEPARATE MOTOR. The film take-up spindle is driven by its own independent motor. Take-up tension is correctly regulated for reel size, for alternating or direct current, and for line voltage variations by a rheostat with clearly marked setting points.

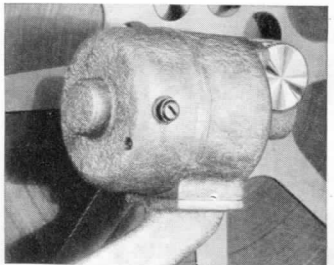
FAST POWER REWIND. The take-up motor provides the power for rapid, automatic film rewinding.



Variable resistance unit and illuminated voltmeter are standard equipment on Filmo 130. They assure maximum screen illumination even when the line voltage is low, and protect the lamp from life-shortening overload when the voltage is high



Fast B & H 2-inch F 1.65 projection lens, instantly interchangeable with lenses of eight longer and shorter focal lengths for shorter and longer throws



This second motor drives the take-up spindle for projection and for swift power rewinding

Lamp and projector motor are not operated during rewinding.

PILOT LIGHT. Illuminates (1) the sprockets and film channel, for threading in a darkened room, and (2) the voltmeter dial.

INTERLOCKING CONTROLS. Assure correct operation, preventing the damage which might be caused if incorrect manipulation were possible.

SNUBBER. Cushions the film take-up tension, preventing sudden jerks on the film if it is left slack when threaded onto the take-up reel.

ADEQUATE COOLING. A twin fan, driven by a powerful motor, passes a great volume of cooling air over the lamp. This, with the heat dispersal effected by the finned lamphouse, keeps the lamp at the proper temperature for safe, economical operation.

FILM CONDITIONING. After passing the aperture, the film travels through a film conditioning channel where it is cooled and humidified by a blast of air which has been passed over humidifying pads.

RADIO INTERFERENCE ELIMINATOR. Neutralizes magnetic radiations, generated by the motors, which might be picked up by your radio speaker.

FINISH. Dark silver grey crinkle-baked enamel. Fittings are in black and in polished nickel plate.

CARRYING CASE. Durable and attractive. Covered in black fabric leather. Accommodates projector, two 1600-foot reels, two 400-foot reels, and extra lenses and lamps.

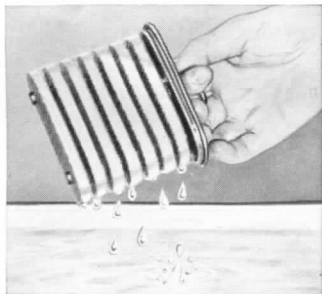
PRICES

	<i>Code</i>	<i>Price</i>
Filmo 16 mm. Auditorium Projector, Model 130, complete with B & H 2-inch F 1.65 lens, 1000-watt lamp, one 1600-foot and one 400-foot take-up reel, and 10-foot rubber-covered current supply cord, not including carrying case	FTHWA	\$385.00
Carrying Case for Filmo Model 130 Projector	FRSMX	27.50
Kodacolor. Complete extra equipment for Kodacolor projection....	LEDUA	25.00

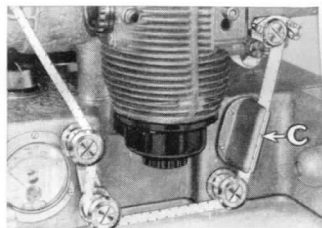
Double Shuttle Tooth may be had if desired instead of the standard single shuttle tooth mechanism. No change in price.



This switch cannot be moved from "run" to "rewind" or vice versa while the current supply switch is on. This interlocking assures correct operation

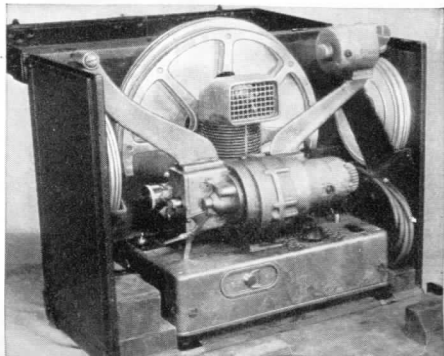


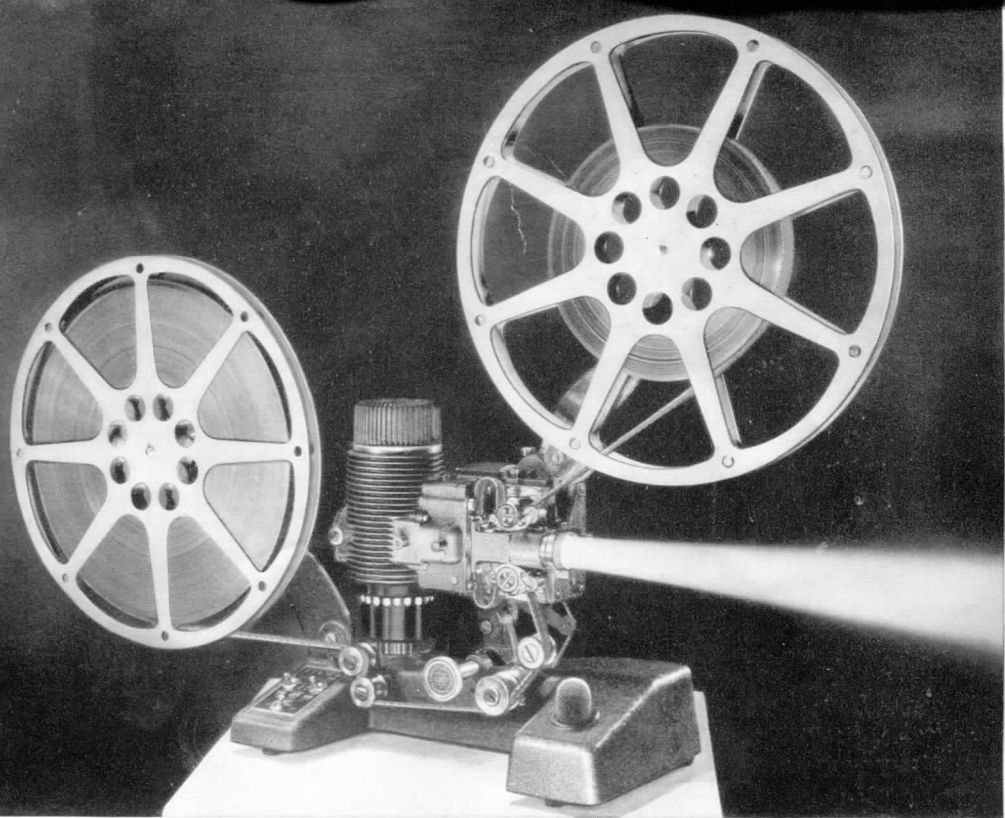
Passing in a forced draft over this humidifying unit, cool air picks up moisture and moves on to the film conditioning channel pictured below



In this channel (C) the film is cooled and humidified after passing the aperture

Below—The Filmo Auditorium Projector case accommodates films and extra lenses and lamps





FILMO Model 129 16 mm. Projectors...

750-watt projectors of highest quality, at moderate prices

MODELS 129 are new Filmo Projectors which offer a number of decided new advantages. Their 750-watt lamps and high efficient optical systems provide ample illumination for all occasions except where absolutely the maximum possible screen size and brilliance are required, when the Filmo Auditorium Projector (see page 3) is recommended. The 1600-foot film capacity of Models 129 is sufficient for a one-hour program without a stop for rethreading.

For use in the home, school, church, and club, and in halls and auditoriums of moderate size, Models 129 are ideal. The two Filmo Projectors of this new

type are Model 129-A and Model 129-B. Their only points of difference are:

FILMO MODEL 129-A uses a 750-watt lamp of 110-, 115-, or 120-volt rating, whichever corresponds most closely to the prevailing line voltage, and has no resistance unit in its lamp circuit. Its lens is the 2-inch F 2.1.

FILMO MODEL 129-B uses a 750-watt 100-volt lamp and has a variable resistance unit and a voltmeter which permit feeding the lamp exactly the correct voltage, even though the line current may be as low as 100 volts or as high as 125 volts. Thus maximum screen illumina-

tion is assured even when the line voltage is subnormal, and thus overloading the lamp (and the resulting shortening of its life) is prevented when the line voltage is high. Model 129-B has a B & H 2-inch F 1.65 lens, which passes a great volume of light.

The basic, time-proved features of Filmo Projector design described on pages one and two are all found in Models 129, assuring the continuance, for a lifetime of reliable, carefree operation, of the excellent results either of these fine projectors will give you today. In addition to the above-mentioned features, Models 129 offer the following advantages:

LAMP ECONOMY by suiting the illumination to the need. In Model 129-A the 750-watt lamp may be replaced, when less illumination is desired, by a 300-, 400-, or 500-watt line voltage lamp. In Model 129-B, illumination may be reduced and lamp life prolonged by setting the resistance lever to give the lamp less than its normal 100-volt load. Or a 400- or 500-watt lamp may be used. See lamp listing on page 10.

LENS INTERCHANGEABILITY. The standard lens may be replaced instantly with any one of a full range of extra lenses to meet special requirements, from the 0.64-inch for close quarters to the 4-inch for long throws. See page 11.

LOW CENTER OF GRAVITY. Achieved by the low, "streamlined" base and the new "fore and aft" placing of the two reels. A very desirable feature, especially in a large capacity projector.

TWO-WAY TILT. Turning a knob on the base tilts the projector up or down, as needed. The tilting range is ample for all practical requirements.

FAST POWER REWIND. Press a lever, and the film is swiftly, automatically rewound.

LAMP SWITCH. Permits turning the lamp off while film is being rewound.

REVERSE. Throw a lever, and the film is run backward, for amusing effects or to repeat a scene.

STILL PROJECTION. Simply disengage the clutch to show any film frame as a still picture. A perforated, all-metal safety shutter operates automatically to protect the film from heat.

PILOT LIGHT. Provides ample illumination for threading and operating the projector in a darkened room.

ADEQUATE COOLING. The 750-watt lamp is kept within its maximum safe temperature of 500° centigrade. This prolongs lamp life.

CARRYING CASE. Strong and durable. Neatly finished in black fabric leather. Accommodates projector, two 1600-foot reels, two 400-foot reels, and extra lenses and lamps.

PRICES

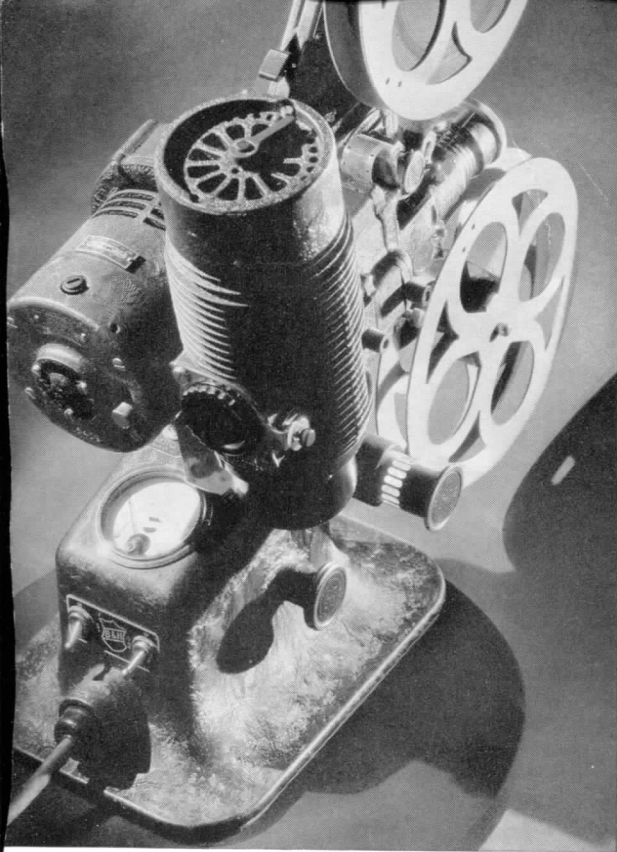
Price

Filmo Model 129-A Projector, complete with B & H 2-inch F 2.1 lens, 750-watt 110-volt lamp, one 1600-foot take-up reel, rubber-covered current supply cord, and carrying case. Code Focoy. \$185.00

Filmo Model 129-B Projector, complete with B & H 2-inch F 1.65 lens, 750-watt 100-volt lamp, variable resistance and voltmeter, one 1600-foot take-up reel, current supply cord, and carrying case. Code Fosax 210.00
For omission of case, deduct.... 15.00

Kodacolor. Complete extra equipment for Kodacolor projection:
For Model 129-A. Code LEDUY 27.50
For Model 129-B (includes adapter required by larger lens carrier). Code LEDUW... 27.50

Double Shuttle Tooth may be had if desired instead of the standard single shuttle tooth mechanism. No change in price.



FILMO JS PROJECTOR

Fully gear-driven,
even to the feed and
take-up spindles

THE Filmo JS Projector stands second only to the Filmo Auditorium Projector, and is the finest 16 mm. machine for use in the home, school, church, moderately sized auditorium, or wherever 1000-watt illumination is not required and 400-foot film capacity is ample. Filmo JS offers all the basic, time-proved features of design and construction presented on pages one and two . . . proof positive of its inherent quality and its ability to give a lifetime of superior service. Added to these fundamental advantages are the following Filmo JS Projector features and specifications:

WHOLLY GEAR-DRIVEN. Even the feed and take-up spindles are gear-driven. There are no chains or belts, inside or outside. Gears are fully encased, silent.

GEAR-DRIVEN POWER REWIND. Throw a lever, and the feed and take-up mechanism is converted into an automatic, gear-driven, power rewind.

750-WATT LAMP. Among 16 mm. projector light sources, this lamp is second only to the 1000-watt in illuminating power.

VARIABLE RESISTANCE AND VOLTMETER. These units, standard equipment on the Filmo JS Projector, permit accurate control of the voltage received by the 100-volt 750-watt lamp, whether the line voltage is as low as 100, or as high as 125, or close to the standard 110. When the line voltage is high, these units protect the lamp from overload and premature burn-out. They insure maximum screen brilliance even when the line voltage is subnormal. The voltmeter dial is illuminated.

LAMP ECONOMY. When full 750-watt illumination is not required, the lamp may be burned at less than 100 volts by regulation of the variable resistance unit. At 93 volts the 750-watt 100-volt lamp gives as brilliant a picture as the 500-

watt lamp does at its rated 100 volts, and lasts almost three times as long. Another economical alternative, when 750-watt illumination is not required, is to use a 400- or 500-watt 100-volt lamp (equipped with the larger prefocusing ring required by all Filmo 750-watt Projectors).

B&H 2-INCH F1.65 LENS, which passes a great volume of light, is standard.

LENS INTERCHANGEABILITY. The standard lens may be replaced instantly with any one of a full range of extra lenses to meet special needs. See page 11.

TWO-WAY TILT. Turning a knob on the base tilts the projector up or down through a range sufficient for all normal needs.

LAMP SWITCH. Permits turning the lamp off while operating the motor for power rewinding.

REVERSE. Throw a lever, and the film movement is reversed, for amusing effects or to repeat a scene.

STILL PROJECTION of any single picture is done simply by disengaging the clutch. A perforated, all-metal safety shutter operates automatically to protect the film from heat.

BUILT-IN PILOT LIGHT. A disappear-

ing pilot light, located immediately below the aperture and automatically turned on as it is withdrawn from the base, permits changing reels in a darkened room.

RADIO INTERFERENCE ELIMINATOR. Neutralizes magnetic radiations, generated by the projector, which might otherwise be picked up by your radio.

CAPACITY. 400-foot 16 mm. film reels.

FINISH. Dark brown crinkle-baked enamel. Fittings are in harmonizing brown bakelite and in polished nickel plate.

CARRYING CASE. Drop front permits easy removal of ready-erect projector. Compartments for two 400-foot films, take-up reel, extra lamp, oil can, etc. Rich brown covering.

PRICES

Price

Filmo JS Projector, complete as described above, including carrying case. Code F10KU . . . \$280.00

Kodacolor. Complete extra equipment for Kodacolor projection. Code LEDUW 27.50

Double Shuttle Tooth may be had if desired instead of the standard single shuttle tooth mechanism. No price change.

FILMO S PROJECTORS

750- and 500-watt 16 mm. projectors at prices remarkably low for machines of Bell & Howell quality

FILMO S Projectors meet the demand for 16 mm. machines which, while costing little, will:

1. Show brilliant, steady, flickerless pictures.
2. Protect films from surface abrasion and perforation wear.
3. Be easily, conveniently operated.
4. Be versatile enough to meet a wide range of requirements.
5. Be so well designed and constructed that they will continue to give the desired service for years to come.

There are three Filmo Projectors in the Model S series, as listed below. All embody the fundamental Bell & Howell design and construction described on pages one and two. Additional specifications are as follows:

LENS. Standard equipment is the 2-inch F 2.1 lens. A lens of any one of eight other focal lengths, from 0.64-inch to 4-inch, may be used instead, to meet special requirements. See page 11.

TWO-WAY TILT. Turning a thumb-screw tilts the projector up or down.

POWER REWIND. Shift a lever, and

400 feet of film are rewound in less than a minute.

LAMP SWITCH. Permits turning the lamp off during film rewinding.

REVERSE. Throw a lever, and the film is run backward.

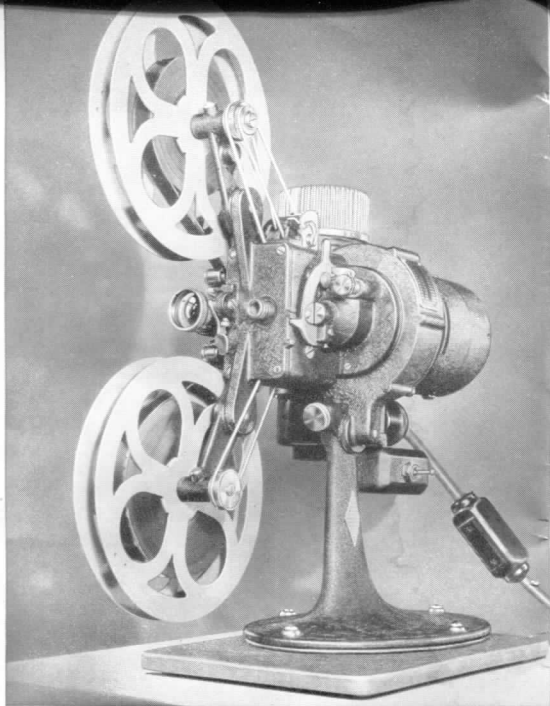
STILL PROJECTION. Film movement may be stopped, simply by disengaging the clutch, to project any film frame as a still picture. A safety shutter protects the stationary film from heat.

DOUBLE SHUTTLE TOOTH is standard equipment.

CAPACITY. 400-foot 16 mm. film reels.

FINISH. Dark brown crinkle-baked enamel. Fittings are in brown bakelite and in polished nickel plate.

CARRYING CASE. Drop front permits easy removal of ready-erect projector. Compartments for two 400-foot films, take-up reel, extra lamp, oil can, etc. Rich brown covering.



Filmo S Projector

PRICES (Carrying case is not included. See separate listing.)

	<i>Code</i>	<i>Price</i>
Filmo S Projector , with 500-watt 110-volt lamp	FASLA	\$125.00
(Also takes 400- and 300-watt line voltage lamps.)		
Filmo ST Projector , with 750-watt 110-volt lamp	FASLE	140.00
(Also takes 500-, 400-, and 300-watt line voltage lamps.)		
Filmo SU Projector , with 750-watt 100-volt lamp, variable resistance unit, and voltmeter	FASLU	165.00
(See page 8, paragraphs "Variable Resistance and Voltmeter" and "Lamp Economy" for advantages of these units. These paragraphs apply to Filmo SU exactly as to Filmo JS.)		
Carrying Case (not included in above prices)	FOLAC	10.00
Kodacolor. Complete extra equipment for Kodacolor projection	LEDUY	27.50

Projection Lamps...

In ordering, specify projector model.

For Filmo 130 Projector

1000-watt 100-volt\$11.00

For Filmo 129-A, 129-B, ST, SU, JS

For Filmos 129-A and ST, order lamps in voltage to correspond with local prevailing line voltage. For Filmos 129-B, SU, and JS, order 100-volt lamps.

750-watt 100-, 105-, 110-, 115-, 120-, or *125-volt\$8.00

500-watt 100-, 105-, 110-, 115-, 120-, or *125-volt 6.25
 400-watt 100-, 105-, 110-, 115-, 120-, or *125-volt 6.00
 300-watt 105-, 110-, 115-, 120-, or *125-volt 4.00

*Available on special order. Three weeks required for manufacture.

For Filmo S Projector

Order 500-, 400-, or 300-watt lamps with *small* rings and in voltage to correspond with local prevailing line voltage. Prices same as above.

Projection Lenses

WITH the new Filmo Projectors, as with every Filmo Projector since the first, made twelve years ago, lenses are instantly interchangeable. This permits the use of the lens which will fill a screen of the desired size from practically any distance that might be required.

The 2-inch lens, standard equipment with Filmo Projectors, meets more requirements than any other one lens. However, in buying a projector primarily for use in a certain room and with a screen of a certain size, you may find that some other lens will be more suitable. The accompanying table of picture sizes will guide you in choosing the proper lens.

The following list indicates the other lenses available, as well as the change in projector price where a change is caused

by substituting another lens for the standard 2-inch lens. Price column A indicates, for each lens, the amount to add to the price of a Filmo 130, 129-B, or JS Projector; column B indicates the same for Filmo 129-A or any "S" series Projector.

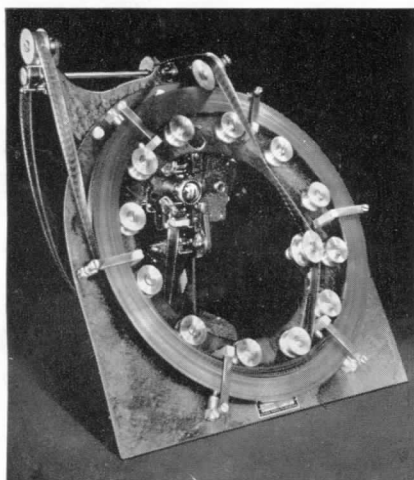
Lens	(A)	(B)
0.64-inch F 4	\$25.00	\$28.00
3/4-inch F 2.5	.....	.....
1-inch F 2.6	.....	.....
1 1/2-inch F 1.8	.....	.....
2 1/2-inch F 1.9	.....	3.00
3-inch F 3.3	.....	.....
3-inch F 2.9	.....	3.00
3-inch F 2.3	21.00	24.00
3 1/2-inch F 4	.....	.....
3 1/2-inch F 2.7	15.00	18.00
4-inch F 4.5	.....	.....
4-inch F 2.8	15.00	18.00

Table of Projected Picture Sizes

DIS-TANCE IN FEET FROM SCREEN	FOCAL LENGTH OF LENS								
	.64"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
	WIDTH OF PICTURE								
1'	0' 7"	0' 6"	.....	.....	.....	.....	.....	.....	.....
2'	1' 2"	1' 0"	0' 9"	.....	.....	.....	.....	.....	.....
3'	1' 9"	1' 6"	1' 1"	0' 9"	.....	.....	.....	.....	.....
4'	2' 4"	2' 0"	1' 6"	1' 0"	0' 9"	.....	.....	.....	.....
5'	2' 11"	2' 6"	1' 10"	1' 3"	0' 11"	.....	.....	.....	.....
6'	3' 6"	3' 0"	2' 3"	1' 6"	1' 1"	0' 10"	.....	.....	.....
8'	4' 8"	4' 0"	3' 0"	2' 0"	1' 6"	1' 2"	.....	.....	.....
10'	5' 10"	5' 0"	3' 9"	2' 6"	1' 10"	1' 6"	1' 3"	1' 0"	.....
12'	7' 0"	6' 0"	4' 6"	3' 0"	2' 3"	1' 9"	1' 6"	1' 3"	1' 1"
16'	9' 4"	8' 0"	6' 0"	4' 0"	3' 0"	2' 4"	2' 0"	1' 8"	1' 6"
20'	11' 8"	10' 0"	7' 6"	5' 0"	3' 9"	3' 0"	2' 6"	2' 1"	1' 10"
25'	14' 7"	12' 6"	9' 4"	6' 3"	4' 8"	3' 9"	3' 1"	2' 8"	2' 4"
32'	.....	.....	11' 11"	8' 0"	6' 0"	4' 9"	4' 0"	3' 5"	3' 0"
36'	.....	.....	13' 5"	9' 0"	6' 9"	5' 4"	4' 6"	3' 10"	3' 3"
40'	.....	.....	14' 11"	10' 0"	7' 5"	6' 0"	5' 0"	4' 3"	3' 9"
45'	.....	.....	.....	11' 3"	8' 5"	6' 9"	5' 7"	4' 9"	4' 2"
50'	.....	.....	.....	12' 6"	9' 4"	7' 6"	6' 3"	5' 4"	4' 8"
64'	.....	.....	.....	.....	11' 11"	9' 7"	8' 0"	6' 11"	6' 0"
75'	.....	.....	.....	.....	14' 0"	11' 3"	9' 4"	8' 0"	7' 0"
100'	.....	.....	.....	.....	18' 9"	15' 0"	12' 6"	10' 8"	9' 4"
125'	.....	.....	.....	.....	23' 5"	19' 8"	15' 7"	13' 4"	11' 8"
150'	.....	.....	.....	.....	28' 1"	22' 5"	18' 8"	16' 0"	14' 0"

Continuous Projection Attachments

600-foot 16 mm. film capacity. Models to fit any Filmo Silent Projector and the B&H Filmosound



The B&H 600-Foot Continuous Attachment in use with a silent Filmo Projector

FOR display booths, show windows, and other public demonstrations, Filmo Projectors for either silent or sound film may be equipped with a continuous projection attachment (illustrated) permitting the continuous automatic showing of as much as 600 feet of film without interruption for rewinding at the end of each showing. The constant presence of an operator is not required. The projector draws the film from the inside of an endless coil and returns it to the outside of that coil. A mercury switch automatically stops the projector in case of incorrect threading or film breakage, thus preventing damage to the film.

Loading or unloading is accomplished simply by winding the film right on or off the rollers by means of a loading drum, the splice being made after loading is completed, thereby precluding error.

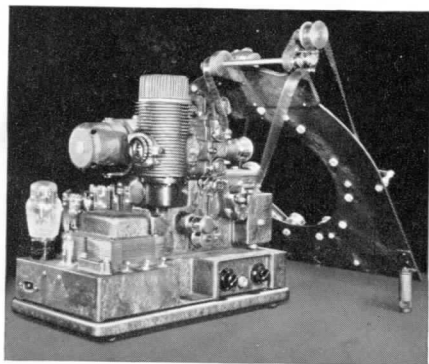
A single print has been run night and day for hundreds of hours without a break, and with minimum service a single print ran for more than 650 hours without being rendered unusable.

The continuous attachment is instantly removable. Sixteen inches wide and centered on the projection lens, with its height no more than that of the projector, it is exceedingly economical of space. This is important to those who show films in cabinets, display fixtures, and show windows.

Assistance from the Bell & Howell Industrial Division is available for the solution of special exhibit problems of all kinds. A monograph on experiences with motion pictures at the Century of Progress is available free.

PRICES

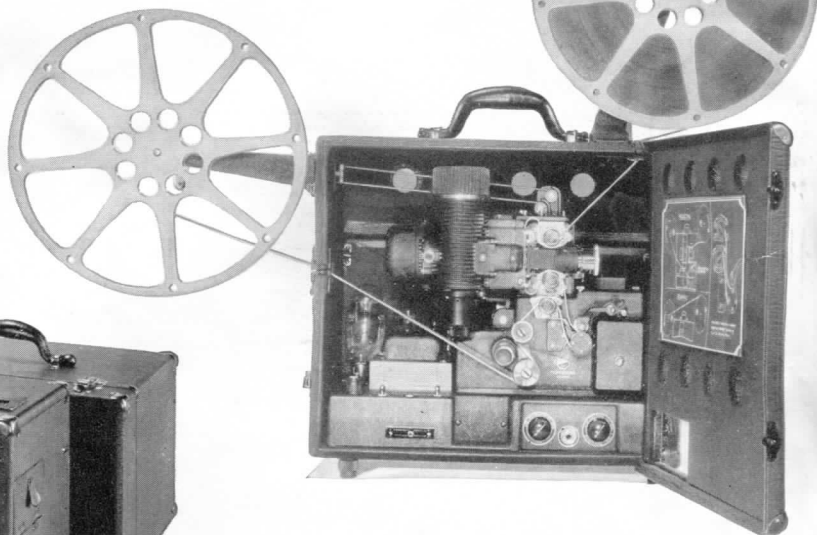
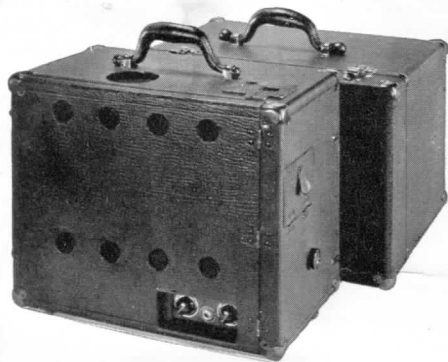
	<i>Price</i>
B&H 600-Foot Continuous Attachment for use with silent Filmo Projectors (except Models 129 and 130—prices on request), including loading drum. Code PROJ	\$150.00
Same, but for use with B&H Filmosound. Code FIPKX	190.00
B&H Film Treatment to prolong life of 16 mm. films for continuous projection or films which are especially valued (minimum charge \$2), per foot.....	1/2c



The B&H Continuous Attachment in use with a Filmosound 16mm. sound-on-film reproducer

Below—The B&H Filmosound 16 mm. sound-on-film reproducer threaded and ready for operation

Below—The Filmosound is complete in two compact, portable cases



BELL & HOWELL FILMOSOUND 16 MM. SOUND-ON-FILM REPRODUCER

THE Bell & Howell Filmosound presents 16 mm. talkies—for educational, entertainment, or commercial purposes—with true theater quality and with truly amateur ease of operation.

The Filmosound consists of a Filmo Projector, which is fundamentally the same as the time-proved Filmo silent projectors, plus highly perfected sound-on-film reproducing equipment including a powerful amplifier and a speaker of the most advanced design. Complete in two cases, as illustrated, the Filmosound is easily transported and quickly made ready for use.

Projected pictures are steady and flickerless, and are brilliantly illuminated by virtue of the efficient direct lighting system which employs a 750-watt or a 1,000-watt lamp, according to the model selected. The 750-watt model is pictured above.

Sound is reproduced with remarkable fidelity. The 15- or 25-watt amplifier gives a full range of undistorted volume from a whisper to the volume necessary in a 2,000-seat auditorium. Absolutely uniform speed of the film at the sound drum, essential to "flutter-less" sound reproduction, is assured by (1) accurate electrical governing of motor speed, (2) power-driven sprockets on each side of the sound drum, and (3) a mechanical filter of the same design as that used in the finest 35 mm. high fidelity reproducers.

Correct use is made easy and positive by error-proof design at critical points, and the film is fully protected from wear and surface abrasion. Reels holding as much as 1600 feet of film, giving a 45-minute program, may be used. A completely descriptive circular will be supplied upon request.

FILMO ACCESSORIES

A partial list of units useful in connection with Filmo Projectors

B&H Film Editing Equipment

	Code	Price
B&H All-Metal Film Splicer—for 16 mm. sound and silent, and 8 mm. film, with Dry Scraper.....	TRIPL	\$10.00
Same, without Dry Scraper.....	TRLDS	7.50
*B&H Combination Rewinder and Splicer—for same three types of film as Splicer—with Dry Scraper.....	TAYLX	22.50
*B&H Film Editor (Rewinder, Splicer, and Direct Film Viewer), with Dry Scraper.....	THEJX	40.50
*Capacity, 400-foot reels. For 1600-foot reel capacity, add.....		3.50

B&H Reels and Humidor Cans

Self-threading reels with footage gauge. Strong containers for all reel sizes—all have humidifying pads with tell-tale device to indicate when moistening is necessary.

Capacity	REEL			HUMIDOR CAN		
	Material	Code	Price	Material	Code	Price
200-foot 16 mm.	Steel	PRABC	\$0.60	200-ft. can not available		
400-foot 16 mm.	Aluminum	PRORL	.75	Aluminum	PROAE	\$0.75
800-foot 16 mm.	Steel	PLAFA	2.50	Steel	PEFAB	2.00
1200-foot 16 mm.	Steel	PROAY	4.00	Steel	PEMCE	2.25
1600-foot 16 mm.	Steel	PROAZ	4.50	Steel	PLABE	3.00

Projection Screens

B&H Extra-Bright Screen, best for both color and monochrome projection. Metallic silvered surface on sheet aluminum base, mounted in a rigid, neat frame. Size 20 by 27 inches.....	SABAW	21.00
Same, size 30 by 40 inches.....	SABAX	39.00

Da-Lite glass beaded screens are offered in sizes and styles for every need: roller wall screens, screens which roll into box cases, screens include their own tripod stands. Descriptive circular upon request.

See separate catalog for Filmo Cameras

BELL & HOWELL COMPANY

1801-15 Larchmont Avenue, Chicago, Illinois

New York, Hollywood, London (B&H Co., Ltd.)

Established 1907

SOLD BY

Albany Camera Shop

204 Washington Ave.

Albany, N. Y.