

The original documents are located in Box 5, folder “Audiovisual Equipment - Singer Catalog” of the John Marsh Files at the Gerald R. Ford Presidential Library.

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SINGER

EDUCATION DIVISION

J. L. HOBSON
MANAGER, AUDIOVISUAL MARKETING
EDUCATION SYSTEMS
Government Division

1828 L ST. N. W., WASHINGTON, D. C. 20036
(202) 223-4100

SINGER

EDUCATION DIVISION

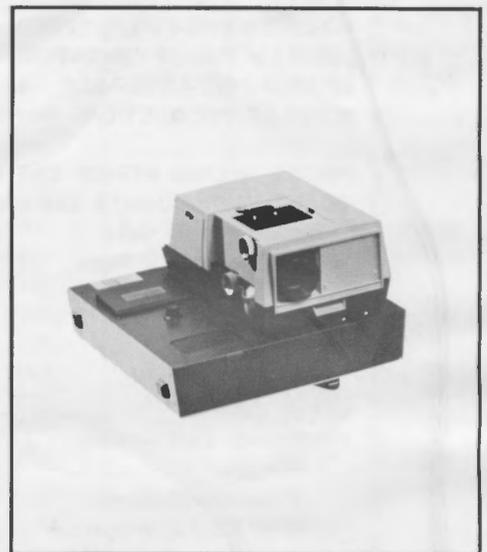
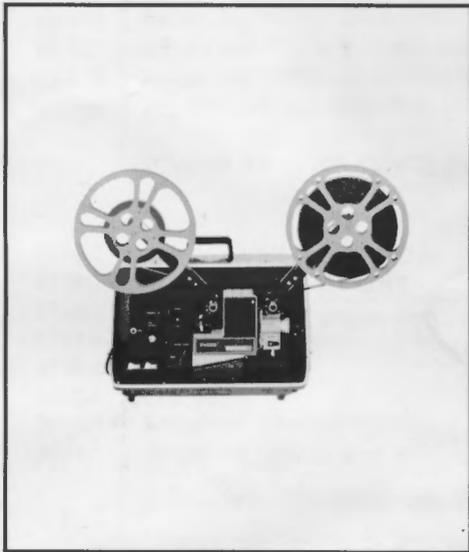
EDUCATION SYSTEMS, ROCHESTER, NEW YORK 14603 (FORMERLY GRAFLEX INC.)

GSA

Catalog '75

FRONT SCREEN PROJECTORS

Authorized
General Service Administration
Federal Supply Schedule
Price List Catalog
CONTRACT NO. GS-OOS-29402
DECEMBER 1, 1974 - NOVEMBER 30, 1975
FSC GROUP 67 PART III
SECTION B CLASS 6730
(See Inside Cover Sheet)



**GENERAL SERVICES ADMINISTRATION
FEDERAL SUPPLY SERVICE
AUTHORIZED FEDERAL SUPPLY SCHEDULE CATALOG
CONTRACT GS-OOS-29402**

FSC GROUP 67 PART III SECTION B
CLASS 6730: Photographic PROJECTION Equipment

PERIOD — DECEMBER 1, 1974 through NOVEMBER 30, 1975
AS AMENDED through FEBRUARY 15, 1975

SINGER EDUCATION SYSTEMS (LARGE BUSINESS)
3750 MONROE AVENUE
ROCHESTER, NEW YORK 14603
(716) 586-2020

SPECIAL ITEM NUMBERS: 20-206 Projection Sets, 16mm Sound, Motion
20-305 Projectors, Still Picture, 35mm without sound
20-308 Projectors, Still Picture, 35mm, with sound

MAXIMUM ORDER LIMITATION ANY SINGLE ITEM: \$25,000
MINIMUM ORDER LIMITATION: \$25
GEOGRAPHIC COVERAGE: 48 States, Alaska, Hawaii, Puerto Rico, DC.
POINT OF PRODUCTION: Rochester, New York

PRICES SHOWN HEREIN ARE NET (Discount deducted)
QUANTITY DISCOUNTS SHOWN ON PRICE PAGES

TERMS: Net 30 Days
FOREIGN ITEMS: None
DELIVERY: 30 Days
F.O.B. POINTS:

SPEC. ITEM	20-206
	20-305
	20-308

48 CONTIGUOUS STATES	DESTINATION
	DESTINATION
	DESTINATION

ALASKA, HAWAII, PUERTO RICO	SEE PRICE PAGES
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SALES OFFICE
ORDERING AND PAYMENT ADDRESS
SINGER
Education Systems
3750 Monroe Avenue
Rochester, N.Y. 14603
(716) 566-2020—TELEX 978227

SALES INFORMATION OFFICE
SINGER
Education Systems
1828 L Street N.W.
Washington, DC 20036
(202) 223-4100

WARRANTY PROVISIONS: See Page 22
EXPORT PACKING CHARGES: COMMERCIAL - ADD 5% MILITARY SPEC - ADD 8%

SERVICE POINTS:

Home Office: 3750 Monroe Avenue Rochester, New York 14603 (716) 586-2020	Midwest Region: 8220 N. Austin Avenue Morton Grove, Illinois 60053 (312) 966-1220	Eastern Region: 1406 Bergen Blvd. Ft. Lee, New Jersey 07024 (201) 947-0666	Singer Audiovisual Ltd.: 550 Hopewell Avenue Toronto M6E256, Ontario, Canada (416) 781-5654
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OR CHECK YOUR YELLOW PAGES FOR SINGER EDUCATION SYSTEMS SERVICE CENTERS

CONTENTS

Federal Supply Schedule Price List.....	3-6	Singer Magnetic Sound Projector, 0920R.....	13
Insta-Load SL (fast forward/reverse).....	7	Modifications Available for 16mm projectors.....	14-15
Insta-Load, 1115A - 1120A & Accessories.....	8	Replacement Lamps.....	16
Insta-Load, 1115AN (Navy).....	9	Instructor Filmstrip/Sound Projector.....	17
Anamorphic (wide screen) lens.....	9	Filmstrip/Slide Projectors, 400 & 1000.....	18
Singer 16 / 1000 Series Projectors (1015 & 1020).....	10	Schoolmaster Projector, 500 & 750.....	19
Accessories, Singer 16 Projectors.....	11	Filmstrip/Slide Projector Accessories.....	20
Lens Projection Guide (projection distance vs. size).....	11	School Master Accessories.....	21
Arc Light Projection, 1180.....	12	Replacement Lamps (not on warranty) & Warranty.....	22

Catalog Number	Description	Model	48 Contiguous States		Alaska Hawaii Puerto* Rico
			1-9	10 or More	
PROJECTORS, 16MM SOUND Special Item No. 20-206					
INSTA-LOAD 1100 SERIES					
8701-1	Insta-Load	1115A	\$ 420.00	\$ 399.00	+ 5%
8701-2	Insta-Load (Navy - includes Service Manual)* AQ-15A	1115AN	440.00	418.00	+ 5%
8703-1	Insta-Load w/speaker cover	1115A	445.00	423.00	+ 5%
8702-1	Insta-Load **	1116A	420.00	399.00	+ 5%
8720-1	Insta-Load	1120A	447.00	425.00	+ 5%
8723-1	Insta-Load w/speaker cover	1120A	466.00	443.00	+ 5%
8721-1	Insta-Load **	1121A	447.00	425.00	+ 5%
8704	Insta-Load SL	1160A	515.00	489.00	+ 5%
8705	Insta-Load SL w/speaker cover	1160A	535.00	508.00	+ 5%
8724	Insta-Load SL	1170A	535.00	508.00	+ 5%
8725	Insta-Load SL w/speaker cover	1170A	555.00	527.00	+ 5%
8726	Insta-Load SL **	1171A	555.00	527.00	+ 5%
8757	Insta-Load ARC SL	1180	1230.00	1180.00	+ 2%
** Available in 220 or 240 Volt - 50 Hz. - Please Specify					
19-523	Insta-Load 1115A w/450 Watt Xenon and Variable Power Supply	1115A	2688.00	2688.00	+ 2%
19-527	Insta-Load 1115A w/Auto Stop, Rewind and Reload System	1115A	1473.00	1473.00	+ 2%
19-528	Insta-Load 1115A w/450 Watt Xenon, Variable Power Supply, Auto Stop, Rewind and Reload System	1115A	3621.00	3621.00	+ 2%
SINGER 16 - 1000 SERIES AND 920R					
3715-1	Singer 16	1015	\$ 379.00	\$ 379.00	+ 5%
3730-1	Singer 16 w/speaker cover	1015	400.00	400.00	+ 5%
3716-1	Singer 16 **	1016	380.00	380.00	+ 5%
3708-1	Singer 16	1020	432.00	410.00	+ 5%
3731-1	Singer 16 w/speaker cover	1020	455.00	432.00	+ 5%
3709-1	Singer 16 **	1021	432.00	410.00	+ 5%
3650-1	Singer 16	1050	472.00	449.00	+ 5%
3651-1	Singer 16 w/speaker cover	1050	500.00	476.00	+ 5%
3631-1	Singer 16 Optical and Magnetic Sound	920R	825.00	804.00	+ 5%
* APO and FPO Addresses Will Be Treated and Priced As Domestic					
** Available in 220 or 240 Volt - 50 Hz. - Please Specify					
ACCESSORIES FOR INSTA-LOAD 1100 SERIES					
8738	Lift Off Speaker Cover		\$ 43.00	\$ 43.00	+ 5%
8739	Dust Cover		4.50	4.50	+ 5%
8740	Lens Adapter for Insta-Load		6.50	6.50	+ 5%
8741	2 inch Insta-Load Lens f/1.4		43.50	43.50	+ 5%
8742*	Zoom Converter		40.75	40.75	+ 5%
8743	5/8" Insta-Load Lens f/2.0		76.00	76.00	+ 5%
8744B	1 inch Insta-Load Lens f/1.9		57.00	57.00	+ 5%
8745	1 1/2 inch Insta-Load Lens f/1.6		60.00	60.00	+ 5%
8747	2 1/2 inch Insta-Load Lens f/1.6		73.50	73.50	+ 5%
8748	3 inch Insta-Load Lens f/2.0		53.50	53.50	+ 5%
8750	4 inch Insta-Load Lens f/1.6		77.00	77.00	+ 5%
*fits Insta-Load Lenses 1 1/2", 2", 2 1/2" and 3"					

Catalog Number	Description	48 Contiguous States		Alaska Hawaii Puerto Rico
		1-9	10 or More	
MODIFICATIONS FOR INSTA-LOAD 1100 SERIES				
19-301	Remote Reverse	\$ 180.00	\$ 180.00	+ 5%
19-316	Microphone Input	25.00	25.00	
19-317	Remote Forward-Off-Reverse	194.80	194.80	+ 5%
19-318	Remote Focus	190.00	190.00	
19-319	Focus Gear Fitted To Customers 1100 Series Projector Lens	62.00	62.00	
19-400	Low Voltage Control of On-Off and Lamp on With 30 Foot Cable and Hand Control	55.00	55.00	+ 5%
19-401	Remote Focus or Reverse Switch in 19-400 - Projector Must Be Modified	20.00	20.00	
19-402	Additional Cable For 19-400 - Per Foot	.18	.18	
19-407	Install 19-400 Remote Control in Projector	32.00	32.00	
19-413	Changeover For Insta-Load 1100 Series Projector	95.00	95.00	+ 5%
19-414	Additional Cable For Changeover - Per Foot	1.40	1.40	
19-415	Changeover Socket Installed in Insta-Load 1100 Series Projector	42.00	42.00	
19-416	Changeover Socket Installation Kit for 1100 Series Projectors - No Installation	19.00	19.00	+ 5%
19-504	16D Lens Mounting Bracket For Anamorphic Lens	23.00	23.00	+ 5%
19-507	Sync Motor Installation	160.00	160.00	
19-508	Selsyn Interlock	754.00	754.00	+ 5%
19-513	Automatic Douser	63.00	63.00	+ 5%
19-515	O dbm 600 Ohm Balanced Output	78.50	78.50	
19-516	Resettable Time Meter Installed	83.00	83.00	+ 5%
19-517	Non-resettable Time Meter Installed	50.00	50.00	+ 5%
19-518	Rear Screen Mirror - Insta-Load	31.50	31.50	+ 5%
19-519	Fit Lens Bracket or Mirror to Projector	11.00	11.00	
19-520	Automatic Changeover Fitted to 2 16mm Projectors	300.00	300.00	
19-521	16D Anamorphic Lens for Wide Screen Projection	150.00	150.00	+ 5%
19-529	Auto Loop Restorer Installed	185.00	185.00	
19-530	BUHL Lens Bracket for Insta-Load	34.00	34.00	+ 5%
19-532	Short Program Adaptation of 19-527 or 19-528 System	70.00	70.00	+ 5%
19-533	Auto Stop on Lamp Burnout For Use With 19-527 or 19-528	75.00	75.00	+ 5%
ACCESSORIES FOR SINGER 16MM 1000 SERIES				
3220*	Extension Speaker	\$ 94.00	\$ 94.00	+ 5%
3601	Zoom Lens 35mm-60mm f/1.5	86.00	86.00	+ 5%
3602	1 inch lens f/1.9	40.00	40.00	+ 5%
3603	1 1/2 inch lens f/1.6	46.50	46.50	+ 5%
3604	2 inch lens f/1.6	32.00	32.00	+ 5%
3605	2 1/2 inch lens f/1.8	63.00	63.00	+ 5%
3606	3 inch lens f/2.0	63.00	63.00	+ 5%
3607	3 1/2 inch lens f/2.5	64.00	64.00	+ 5%
3608	4 inch lens f/2.8	63.00	63.00	+ 5%
3610	5/8 inch lens f/2.0	55.00	55.00	+ 5%
3611	2 inch Cinemascope lens	225.00	225.00	+ 5%
3694	Aperture Brush	.50	.50	+ 5%
3722-1	Lift Off Speaker Cover	60.00	60.00	+ 5%
3737	Dust Cover	4.50	4.50	+ 5%
MODIFICATIONS FOR SINGER 16MM 1000 SERIES				
19-300	Remote Focus 1000 Series Projector	140.00	140.00	
19-301	Remote Reverse	180.00	180.00	+ 5%
19-312	Focus Gear Fitted To Customers 1000 Series Lens	20.00	20.00	
19-316	Microphone Input	25.00	25.00	
19-317	Remote Forward-Off-Reverse	194.80	194.80	+ 5%
19-400	Low Voltage Control of On-Off and Lamp on With 30 Foot Cable and Hand Control	55.00	55.00	+ 5%
19-401	Remote Focus or Reverse Switch in 19-400 - Projector Must Be Modified	20.00	20.00	
19-402	Additional Cable For 19-400 - Per Foot	.18	.18	
19-404	Changeover for Singer 16 Model 1020 Projector	95.00	95.00	+ 5%
19-405	Changeover for Singer 16 Model 1040 Projector	95.00	95.00	+ 5%
19-406	Changeover Or Line Voltage Socket Installed in 1000 Series Projector	45.00	45.00	+ 5%
19-407	Install 19-400 Remote Control in Projector	32.00	32.00	

Catalog Number	Description	48 Contiguous States			Alaska Hawaii Puerto Rico		
		1-9	10 or More				
MODIFICATIONS FOR SINGER 16MM 1000 SERIES (Continued)							
19-408	Additional Cable For 19-411 Control - Per Foot	\$.70	\$.70		+ 5%		
19-410	Changeover For Singer 16 Model 1015 Projector	95.00	95.00		+ 5%		
19-412	1000 Series Changeover Socket Installation Kit - No Installation	13.50	13.50		+ 5%		
19-505	BUHL Lens Bracket for 1000 Series	34.00	34.00		+ 5%		
19-506	Rear Screen Mirror 1000 Series Projector	31.50	31.50		+ 5%		
19-507	Sync Motor Installation	160.00	160.00				
19-508	Selsyn Interlock	754.00	754.00		+ 5%		
19-509	Continuous Loop For 1000 Series Projector	590.00	590.00		+ 5%		
19-513	Automatic Douser	63.00	63.00		+ 5%		
19-515	O dbm 600 Ohm Balanced Output	78.50	78.50				
19-516	Resettable Time Meter Installed	83.00	83.00		+ 5%		
19-517	Non-resettable Time Meter Installed	50.00	50.00		+ 5%		
19-519	Fit Lens Bracket or Mirror to Projector	11.00	11.00				
19-520	Automatic Changeover Fitted to 2 16mm Projectors	300.00	300.00		+ 5%		
19-521	16D Anamorphic Lens	150.00	150.00		+ 5%		
19-524	Two Blade Shutter Installed	57.50	57.50				
19-526	16D Anamorphic Lens Bracket for 1000 Series	23.00	23.00		+ 5%		
19-529	Auto Loop Restorer Modification	185.00	185.00				
FILMSTRIP PROJECTOR, NO SOUND Special Item No. 20-305							
Catalog Number	Description	Code	1-11	48 Contiguous States		50	Alaska Hawaii Puerto Rico
				12-24	25-49		
SCHOOLMASTER PROJECTORS							
Manual							
3819	SM-500 3 wire	D	\$ 87.50	\$ 83.00	\$ 79.00	\$ 75.00	+ 5%
3829	SM-750 3 wire	D	101.50	96.50	91.50	87.00	+ 5%
Remote Models							
3820	SM-500 RC 3 wire	D	115.50	109.75	104.25	99.00	+ 5%
3827	SM-750 RC 3 wire	D	129.50	123.00	116.75	111.00	+ 5%
Manual Kits							
3830	SM-500 kit 3 wire	D	104.00	99.00	94.00	89.25	+ 5%
3832	SM-750 kit 3 wire	D	119.50	113.50	107.75	102.50	+ 5%
Remote Kits							
3831	SM-500 RC kit 3 wire	D	132.75	126.25	119.75	113.75	+ 5%
3833	SM-750 RC kit 3 wire	D	152.75	145.25	138.00	131.00	+ 5%
SM-1000 PROJECTORS							
3920	SM-1000 Manual	D	104.00	99.00	94.00	89.25	+ 5%
3900	SM-1000 Remote	D	132.00	125.50	119.25	113.25	+ 5%
SM-400 PROJECTORS							
Manual							
3532	SM-400 3 wire	E	50.00	47.50	45.25	43.00	+ 5%
Remote							
3501	SM-400 RC 3 wire	E	95.50	90.75	86.25	81.75	+ 5%
Manual Kits							
3533	SM-400 3 wire kit	E	74.75	71.00	67.50	64.25	+ 5%
Remote Kits							
3503	SM-400 RC 3 wire kit Inc. 3519, 3542	E	109.50	104.00	98.75	93.75	+ 5%
3504	SM-400 RC 3 wire kit Inc. 3960, 3542	E	106.75	101.50	96.50	91.50	+ 5%

Catalog Number	Description	Net				Alaska Hawaii Puerto* Rico
SCHOOLMASTER ACCESSORIES						
Lenses						
3572	5 inch f/3.5 Series S	\$ 20.00				+ 5%
3573	3 inch f/2.9 Series S	16.00				+ 5%
Carrying Cases						
3802	Case for SM-500	12.00				+ 5%
3812	Case for SM-750	13.00				+ 5%
3822	Case for SM-500 RC	14.00				+ 5%
3825	Case for SM-750 RC	15.00				+ 5%
Miscellaneous						
3873	Airequipt Magazine 36-slide	2.70				+ 5%
3876	Semi-Auto Slide Changer	8.70				+ 5%
3880	SM Rewind Take-up	10.00				+ 5%
SM-1000 and INSTRUCTOR ACCESSORIES						
Lenses						
3975	3 inch f/2.5	52.50				+ 5%
3976	5 inch f/2.8	38.50				+ 5%
3977	5 inch f/3.2	16.00				+ 5%
3978	7 inch f/3.5	66.00				+ 5%
Miscellaneous						
3960	Single Slide Carrier	4.75				+ 5%
3519	Stack Type Slide Changer	8.75				+ 5%
SM-400 ACCESSORIES						
Lenses						
3845	2 inch Series 00 f/3.5	33.75				+ 5%
3847	3 inch Series 00 f/3	22.00				+ 5%
3848	4 inch Series 00 f/3.5	37.50				+ 5%
Carrying Cases						
3543	Manual Carrying Case	11.50				+ 5%
3542	Remote Carrying Case	14.00				+ 5%
Miscellaneous						
3516	Take-up Supply Kit	6.70				+ 5%
3519	Stack Type Slide Changer	8.75				+ 5%
3960	Single Slide Carrier	4.75				+ 5%
FILMSTRIP PROJECTOR WITH SOUND Special Item No. 30-308						
		1-11	12-24	25 +		
3965	Instructor	\$240.00	\$233.00	\$226.00		+ 5%
3967	Instructor w/speaker cover	267.00	259.00	251.00		+ 5%

The SINGER Insta-load 16mm projector



Model 1170A

Insta-Load  lets you do things with 16mm film you've never done before!

FEATURES

- Fast - forward and reverse
- In-path rewind
- Instant loading
- Film counter
- Single master control
- Random access capability
- Pushbutton console
- Fast mode interlock

SPECIFICATIONS

- 15-watt RMS (30W peak music power) Solid state amplifier
- Optical sound pickup
- Two thousand foot reel capacity
- Optical frame control
- Fiberglass case
- Sound Loop resetting
- Permanently attached 9' power cord
- Blower cooled
- 50-15,000 Hz amp. response
- 3-blade shutter
- 2" f/1.4 lens: other lenses from 1/2" to 4", including zoom converter available
- New low voltage 50-hour EJL lamp ENE (15 hour lamp opt.)
- Projects still frames*
- Rack and pinion elevation
- Weight 36½ lbs.
- Two built-in 5" oval speakers

CATALOG NUMBERS

Model 1160A (60 cycle, 117 volt) . . . Cat. No. 8704

Model 1160A (with lift off cover speaker) Cat. No. 8705

* Model 1170A (60 cycle, 117 volt) (with still picture control) Cat. No. 8724

* Model 1170A (with still picture control and lift off cover speaker) Cat. No. 8725

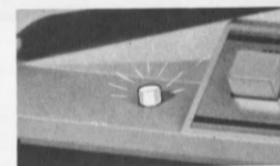
Model 1171A (with still picture control and lift off cover speaker) Cat. No. 8726

Available in 220 or 240 volt 50 Hz. - please specify

The  does it all!



Convenient Console Allows Fingertip Control Of All Projection Functions.



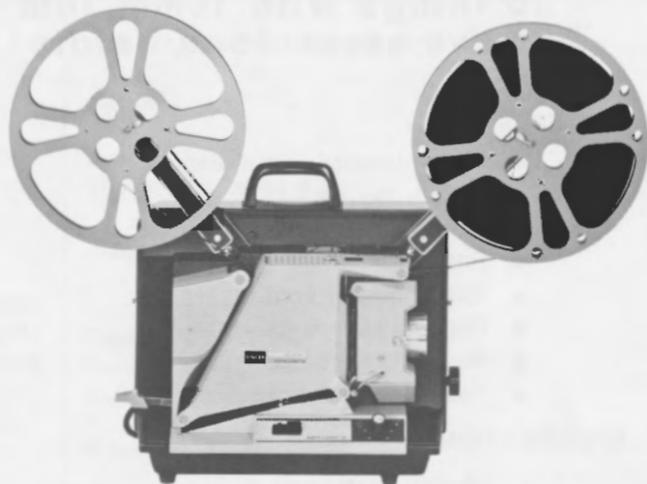
Fast Mode Interlock . . . built-in safety light regulates pushbutton and lever function.



Footage Counter Keeps track of important film segments, accurate to within 2 ft.

Insta-Load Projectors

Models 1115A and 1120A



Model 1120A

CATALOG NUMBERS

- Model 1115A..... Cat. No. 8701-1
- Model 1115A (with lift off cover speaker)..... Cat. No. 8703-1
- Model 1116A..... Cat. No. 8702-1***
- Model 1120A (still Model).... Cat. No. 8720-1
- Model 1120A (with lift off cover speaker)..... Cat. No. 8723-1
- Model 1121A..... Cat. No. 8721-1***

***Available in 220 or 240 volt 50 Hz. - please specify

FEATURES

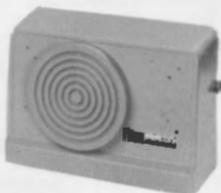
- Projects still frames*
- Reverse operation
- Instant loading
- 2" f/1.4 lens
- Optical frame control
- Sound loop resetting
- 3 blade shutter
- Permanently attached, fold down reel arms
- In-path rewind
- Push button controls
- Blower cooled
- Optical sound pickup
- 15 watt RMS power output (30 watt peak music power rating)
- Twin 5" oval speakers
- 50-15,000 Hz Audio Response
- Fiberglass case
- Weight 36½ lbs.

SPEAKERS

Extension speakers available for use with projectors, tape recorders, record players.



Extension Speaker System 10" woofer, twin 4" tweeters in walnut enclosure Cat. No. 3220



Lift-off Cover Speaker For Insta-load .. Cat. No. 8738

DUST COVER

Attractive, beige lightweight vinyl



Insta-Load Models Cat. No. 8739

APERTURE CLEANING BRUSH

..... Cat. No. 3694

Insta-Load Accessories

INSTA-LOAD LENSES

- 2" f/1.4 Cat. No. 8741
- 5/8" f/2.0 Cat. No. 8743
- 1" f/1.9 Cat. No. 8744B
- 1-1/2", f/1.6 Cat. No. 8745
- 2-1/2", f/1.6 Cat. No. 8747
- 3" f/2.0 Cat. No. 8748
- 4" f/1.6 Cat. No. 8750

LENS ADAPTER

Lens Adapter Cat. No. 8740 (Adapts Singer 16mm lenses to all 1100 Series projectors)

ZOOM CONVERTER

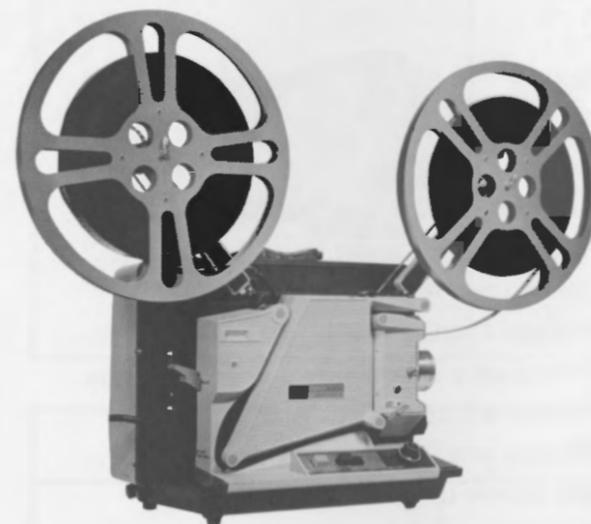
Zoom Converter .. Cat. No. 8742

This optical device permits projection versatility when projectors are moved from one location to another location. The Zoom Converter simply screws onto the fixed lens to vary the focal length from .75 to 1.25 times the fixed focal length. The projected image is modified to fit the circumstance. Designed to fit any Insta-Load lens up to 3", the Zoom Converter provides high resolution at low cost.



Singer Insta-Load Projector

Model 1115AN



Model 1115AN..... Cat. No. 8701-2
Military Type Designator..... AQ-15A

This projector is a modified Model 1115A. The Model 1115AN incorporates fuses on each side of the power supply circuit. Requirements of Electromagnetic Interference Standards Mil. Std. 461A, 462 and 463 are met. Other Navy safety requirements are met.

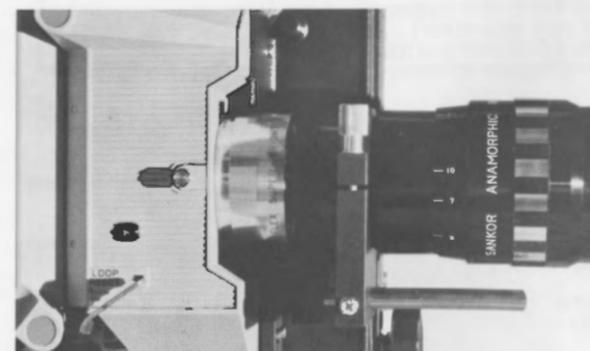
The following "STARTER KIT" containing back-up items is suggested when supply sources not readily available.

** Starter Kit Cat. No. 8756		\$79.69
consists of:		
		Unit Price
6	42762-P1 EJL Projection Lamp (approx. 80 hours each)	\$ 9.96
3	38386-P2 BSW Exciter Lamp	2.64
3	42981-P2 Take-Up Belt	1.20
3	42981-P1 Supply Belt	1.20
3	42901-P1 Drive Belt	2.70
1	39479-P2 Instrument Oil	2.00
1	7402PRJ Navy Service Manual for Model 1115AN Projector	12.50

NOTE: Individual items may be ordered as needed

** Preventive Maintenance Lube Kit Part #39479-G3F		\$26.50
** 1	SS320 Tool Kit	\$ 86.00
** 1	8755 Basic Parts Kit (Supports five 1115AN's)	202.00

** Not on Contract



Anamorphic adapter lens for 16mm Projectors

The supplementary anamorphic lens allows the projection of cinemascope pictures. It will work with all regular projection lenses with focal lengths of 1½ through 4 inches.

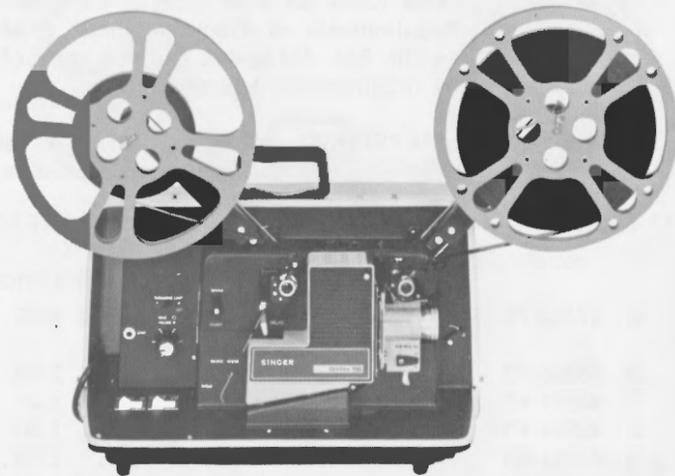
The 1115AN Projector chassis is prepared for finger-screw attachment of the Anamorphic Lens mounting bracket.

Anamorphic supplementary lens 19-521

Anamorphic lens mounting bracket (specify..... if for 1100 or 1000 series Projector (not..... necessary on 1115AN)..... 19-504

Fitting anamorphic bracket to projector..... 19-519

Singer 16 / 1000 Series Projectors



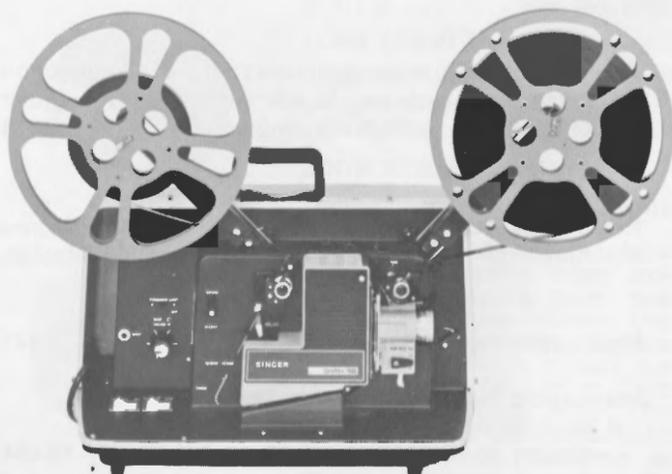
Model 1015

FEATURES

Model 1015

- Reverse Operation
- Automatic Soundhead Threading
- Optical Frame Control
- Sound Loop Resetting
- 3 Blade Shutter
- Permanently attached, fold down reel arms
- Rewind without reel transfer
- Accepts anamorphic and zoom lenses
- 365 Screen Lumens capability
- Blower cooled
- Optical Sound pickup
- Power output - 10 watts (20 watt Peak Music Power Rating)
- Dual 5" built-in Speakers
- 50 to 15,000 Hz Audio Response
- Fiber glass case
- Permanently attached 9' Power Cord
- 2" f/1.6 standard lens
- Sound-Silent Projection

Model 1015 (60 cycle, 117 volt operation) **Cat. No. 3715-1**
 Model 1015 with extra lift-off cover speaker **Cat. No. 3730-1**



Model 1020

Model 1020

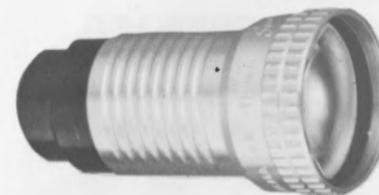
Features same advantages found in the Model 1015 & 1050 with the following additions.

- Projects still frames
- Automatic 2-3 blade shutter
- 462 Screen Lumens capability

Model 1020 (60 cycle, 117 volt operation) **Cat. No. 3708-1**
 Model 1020 with extra lift-off cover speaker **Cat. No. 3731-1**
 Export Models also available.

Singer 16mm Accessories

LENSES



FINE QUALITY WIDE RANGE

5/8", f/2.0	Cat. No. 3610
1", f/1.9	Cat. No. 3602
1 1/2", f/1.6	Cat. No. 3603
2", f/1.6	Cat. No. 3604
2 1/2", f/1.8	Cat. No. 3605
3", f/2.0	Cat. No. 3606
3 1/2", f/2.5	Cat. No. 3607
4", f/2.8	Cat. No. 3608
2" Cinemascope	Cat. No. 3611

ZOOM LENS

Zoom Lens f/1.5 **Cat. No. 3601**
 (Provides coverage 35 to 60mm)

LENS PROJECTION GUIDE

SCREEN WIDTH	PROJECTION DISTANCE								
	40"	50"	60"	70"	84"	8'	9'	10'	12'
LENS FOCAL LENGTH									
1"	8'	10'	13'	15'	18'	21'	23'	26'	31'
1 1/2"	13'	16'	19'	23'	27'	31'	35'	39'	47'
2"	17'	21'	26'	30'	36'	42'	47'	52'	63'
2 1/2"	22'	27'	32'	38'	46'	52'	59'	65'	79'
3"	26'	32'	39'	46'	55'	63'	71'	79'	94'
4"	35'	43'	52'	61'	72'	84'	94'	105'	126'

SPEAKERS



Extension speakers available for use with projectors, tape recorders, record players.

Extension Speaker System
 10" woofer, twin 4" tweeters in
 walnut enclosure **Cat. No. 3220**

DUST COVER



Attractive, beige lightweight vinyl
 Singer 16 Models **Cat. No. 3737**

Lift-off cover speaker **Cat. No. 3722-1**

APERTURE CLEANING BRUSH
 **Cat. No. 3694**



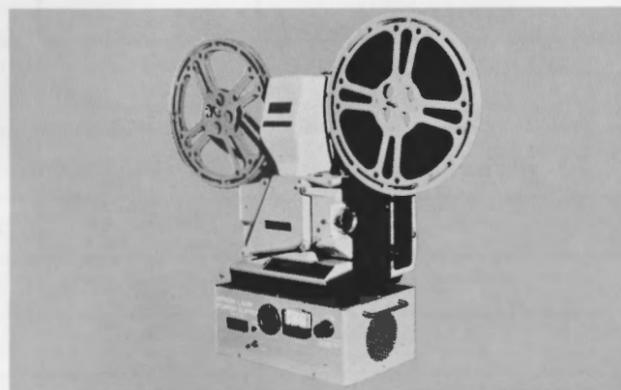
Arc Light Projection

for TOTAL SCREEN ILLUMINATION



**Model 1180A . . . NOW
SUPPLIED WITH FAST-FORWARD
AND REVERSE FEATURES OF
THE MODELS 1160A OR 1170A
(See Page 7)**

INSTALOAD 16mm XENON PROJECTORS*



SPECIFICATIONS

Model 1180A

SOUND SYSTEM

- Optical Sound Pickup
- Speaker Output for 4-16 ohm speaker systems
- Microphone—Phono Input
- 20-20,000 Hz Audio Response
- Amplifier Power Output—10 watt (20 watt peak music power rating) transistor
- Dual 5" oval PM built-in speakers

OPTICAL SYSTEM

- Arc Lamp—low pressure type encased in quartz tube
- Lamp Life rated at 25 hrs.
- Lamp Power Consumption—37 volts DC at approx. 8 amps provided by companion power supply unit
- Over 2000 open shutter screen lumens, over 1000 screen lumens with shutter running
- Solenoid operated Safety shutter
- Average corner to center screen illumination ratio 45%

FEATURES

- Fast Forward/Fast Rewind
- Push Button Controls
- Forward-Reverse Operation
- Optical Framing Control
- Automatic Soundhead Loading
- Sound Loop Resetting
- Rewind without Reel Transfer
- Permanently attached, fold down reel arms
- Maximum Reel Capacity 2000 ft.
- 2" f/1.6 lens
- Accepts anamorphic and zoom lenses
- Blower cooled
- Fiber Glass Case
- Projector Power Requirements—8 amperes, 105-125 volts, 60 cycles

Cat. No. 8757

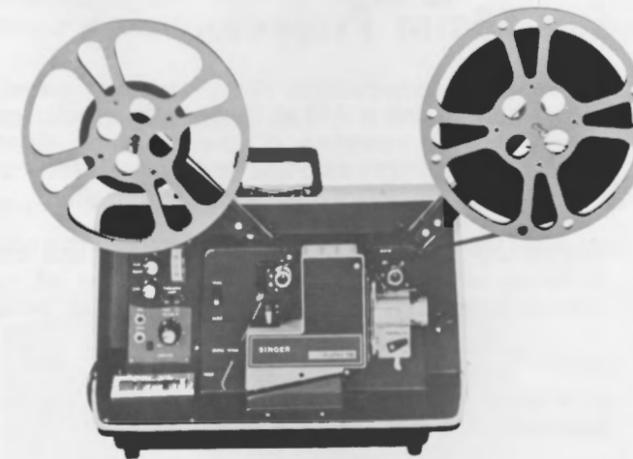
For all applications requiring brighter pictures than that available from regular incandescent or Marc 300 projection lamps. Will project a satisfactory picture on screens as large as 20 feet at a small fraction of arc lamp cost. Very economical.

Uses a 450 watt ozone free short arc Xenon projection lamp with a continuously variable power supply. This allows the light intensity to be adjusted to the desired level. The projected light on the screen is 2400 lumens with the model 1115-900XS. All measurements made according to ASA standards with the standard projection lens and the two blade shutter operating.

The projector is equipped with an electric automatic douser to protect the film in the event of projector failure. The ozone free Xenon lamp requires no warmup time to reach correct color temperature. It strikes instantaneously and can be restruck immediately after being shut off with no waiting time for the lamp to cool. Constant bright color temperature.

Cat. No. 19-523

Magnetic Sound Projector 0920R



Microphone Included in Model
0920R (Record Model)

Singer 16 Magnetic Sound Projectors dramatically extend the quality of film presentation . . . broaden the entire range of film production, at a moderate price! Singer combines the exclusive features of Singer 16 optical sound projectors with Magnetic Playback and Magnetic Record and Playback Capability. Singer sound magnetic projector 0920R offers 3 projection options. . . magnetic sound, optical sound, silent projection.

FEATURES:

- Optical Sound Pickup
- Optical Frame Control
- 50-15,000 Hz Audio Response
- Microphone Phono Input
- Dual 5" oval built-in speakers
- Fiber glass case
- Permanently attached 9' Power Cord
- Projects still frames
- Reverse Operation
- Automatic Soundhead loading
- Sound Loop Resetting
- Automatic 2-3 blade shutter
- Permanently attached, fold down reel arms
- Rewind without reel transfer
- Push Button Controls
- Accepts anamorphic and zoom lenses
- 462 Screen Lumen capability
- Blower Cooled
- Power Output—8watt (20 watt Peak Music Power Rating) transistor
- Produce magnetic sound tracks for 16mm films
- Mix and edit sound for accompanying narrative
- Change commentary on magnetic sound track
- Add 50 or 100 Mil magnetic stripe for background music or sound effects
- Level meter to indicate actual recording level
- Accident proof erase controls.
- Dynamic microphone

SPECIFICATIONS

Magnetic Sound Playback: Two stage preamplifier; solid state with feed back and low frequency suppression at output. Voltage gain, 26 ± 3 db. The Preamplifier frequency response is designed to complement the play-back head response. Overall frequency response up to 15,000 c.p.s. is achieved. Noise level is less than 150 microvolts at output.

Magnetic Sound Record: The solid state record amplifier provides for a record head current of more than one millampere from an input of one millivolt into the amplifier.

Recording Level Meter: VU (volume unit) Meter is calibrated so that one milliamperere of record head current occurs at the green-red line of demarcation. This is 12 db. below the tape saturation.

Erase Head Control: Movement of the selector arm to any other position than record, automatically raises the erase head. It's impossible to erase a recording unintentionally.

Model 0920R Magnetic Record & Playback
(117 Volts, 60 cycles) Cat. No. 3631-1

Modifications Available For 16mm Projectors



Remote On/Off Control For 16mm Projectors

This remote control will fit all Singer 16mm projectors to provide remote operation of the projector. Controls include projector run-stop and lamp on-off when those controls are normally available on the projector.

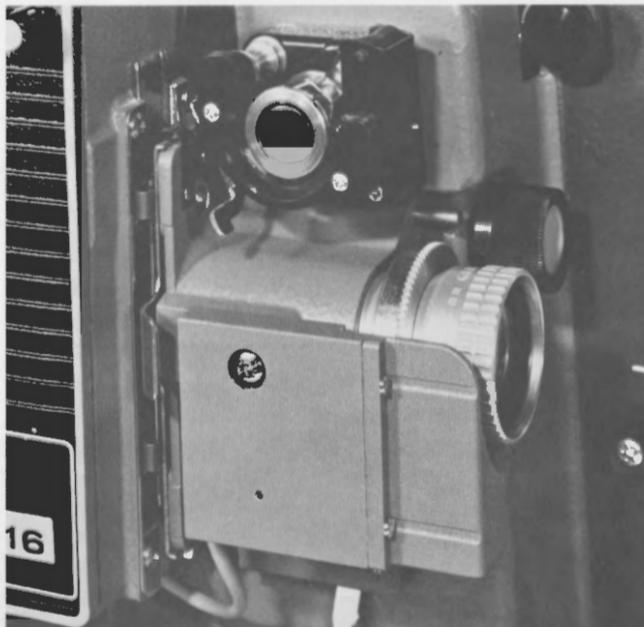
The remote control operates on 24 Volts and comes complete with a hand control with 30 feet of cable. Special length cables are available on special order.

16mm Remote Control

All Models..... 19-400
Installation Charge..... 19-407

Extra cable beyond 30 feet
(specify length)..... Cat. No. 19-402

Extra switch for remote focus or reverse
(projector must be modified to accommodate these functions)..... Cat. No. 19-401



Remote Focus for Singer 16 Projectors

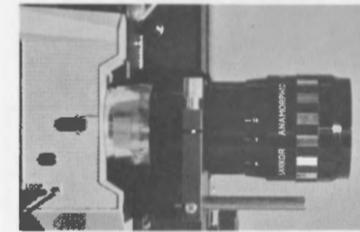
A Remote Focus device allows the operator to control focusing on a Singer 16 projector from any distance.

Control for the Remote Focus device may be provided by a separately available hand-held remote control action switch or through remote panels in media systems.

This low voltage accessory can be fitted to all Singer 16mm lenses.

Singer 16mm Remote Focus
Model 1000 Series..... Cat. No. 19-300

Insta-Load Remote Focus
Model 1100 Series..... Cat. No. 19-318



Anamorphic adapter lens for Singer 16mm Projectors

The Sankor supplementary anamorphic lens allows the projection of cinemascope pictures with the Singer 16mm projectors. It will work with all Singer regular projection lenses with focal lengths of 1½ through 4 inches.

The mounting bracket is easily attached to the projector and provides a stable mount for the supplementary anamorphic lens.

Anamorphic lens mounting bracket for
Singer 16 Model 1000 Series..... Cat. No. 19-526

Anamorphic lens mounting bracket
for 1100 Series..... Cat. No. 19-504

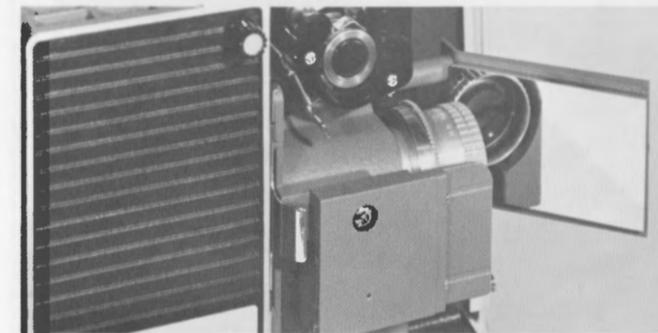
Sankor 16D anamorphic supplementary lens for
Model 1100 Series..... Cat. No. 19-521

Fitting anamorphic bracket to projector
..... Cat. No. 19-519

Singer 16 Rear Screen Projection Mirror

Use a mirror on the Singer 16 for rear screen projection.

No special installation is required. The rear screen mirror is easily removed for storage.



This is a special front surface mirror that is designed to provide maximum reflection. It resists scratching because it is silicone monoxide coated. The rear screen mirror is usable with all Singer 16 projection lenses.

Catalog No.
Model 1000 Series Rear Screen
Projection Mirror..... 19-506
Model 1100 Insta-Load Series..... 19-518
Fitting Charge for 1100
(not needed for 1000)..... 19-519



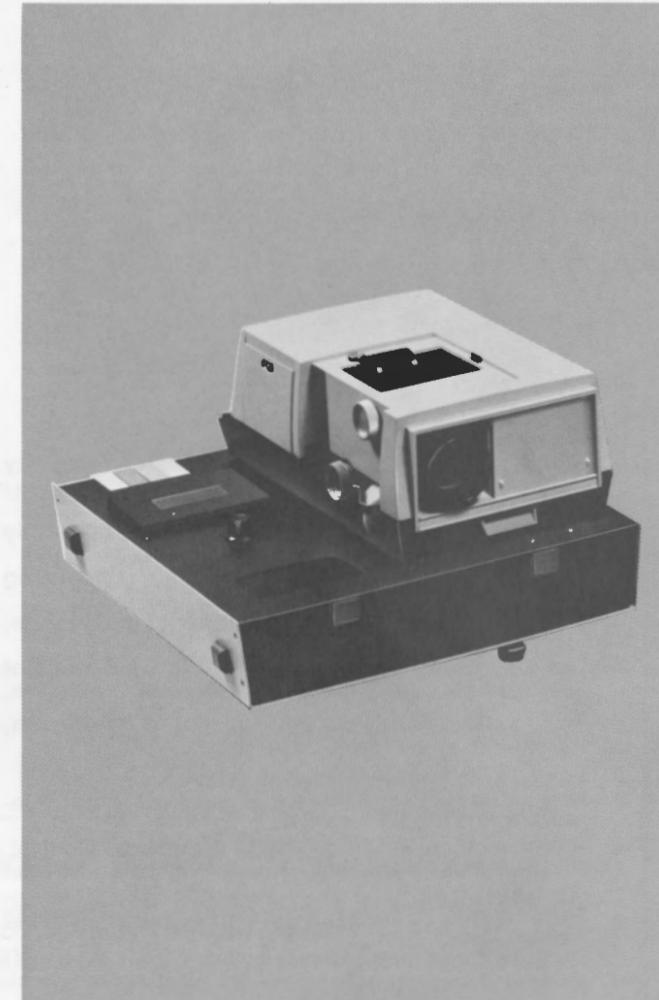
Dual Front Projection System for use as dual system in a large auditorium or as two individual systems in a split auditorium.

Replacement Lamps

PROJECTOR	PART NO.	WATTS	VOLTS	ANSI TYPE	BASE	PRICE
PROJECTION LAMPS						
INSTANT LOAD	42762-P1	200	24	EJL	PIN-BASE	\$ 9.96
GRAFLEX 16	38170-P1	250	21.5 (10 hr)	DLR	TRU-FOCUS	12.40
	38170-P2	250	21.5 (25 hr)	DKM	TRU-FOCUS	50.95
GRAFLEX 16 ARC (In sets only)	41358-P1	300	37.5 (25 hr)	MARC 300/16A	2 PIN PLUG	13.55
	41358-P2	Matched set of 4 Lamps				
EXCITER LAMPS						
800 SERIES	38386-P1	.75A	4 (50 hr)	BRK	PRE-FOCUS	3.70
ALL OTHERS	38386-P2	.2A	7 (50 hr)	BSW	PRE-FOCUS	3.70
THREADING LAMPS						
800 SERIES	38393	.9C	(3000 hr)	#44	MIN. BAY	.45
900 EXPORT	39311-P2	10		10S6/10	MIN. SCREW	.70
ALL OTHERS	39311-P1	6		6S6	MIN. SCREW	.70

The Instructor

35mm Synchronized Filmstrip/Sound Projector



SYNCHRONIZED CASSETTE SOUND . . . another important dimension for MEDIUM or LARGE GROUP 35mm filmstrip instruction.

The Instructor is exactly what its name implies, a perfect example of Singer engineering skill that blends sight and sound into effective group instruction. What makes the Instructor do so much so well is a unique combination of elements: A low-profile, space-saving design that never gets in the way of the presentation; automatic can-to-can loading that's quick, foolproof and eliminates rewinding; 750 watts of picture power that permits presentations in fully-lighted rooms; a modern cassette system that puts sound reproduction on par with picture quality. Add today's most-wanted safety and operating convenience features, and the Instructor stands out as the industry's foremost front-screen filmstrip projector.

CASSETTE SOUND: The Instructor incorporates all the elements of superior audio support. Its trim tape deck conveniently locates standard 2-track cassette and houses 5 full watts of audio output. Sound sync is accomplished on 50 Hz and cued with inaudible tone superimposed on audio tape track. Full pushbutton controls complete with stop/eject, play, rewind, fast-forward. Speakers include large 3x5 oval built in, plus accessory 4x6 oval available in lift-off cover with 30 ft. power cord. Remote 1/4" speaker jack disengages built-in speaker when active.

AUTOMATIC LOADING: The can-to-can concept blends the best of operating convenience and film safety into a single load motion. It's the last word in loading ease. Hands never touch a live frame. Even the inexperienced can slot load and frame the Instructor in seconds. Then it's all automatic. The filmstrip simply rewinds into the can, ready for the next showing or storage. Filmstrips stay clean, last longer, are seldom exposed to damage.

Instructor Cat. No. 3965
 Instructor w/speaker cover Cat. No. 3967

CONVENIENCE FEATURES THAT ARE QUICK-RESPONSIVE-SAFE

AUXILIARY LENS
 3" F/3.5, 5" F/2.8, 7" F/3.5 available to insure a wide variety viewing locations.

ELEVATION CONTROL
 Fingertip response from 0 to 11 degrees is quick, positive. Non-mar rubber pads protect projection surface, insure projector stability.

SAFETY COOLING
 Advanced squirrel cage blower dispenses heat away from operator. Lamp encased in full-length vent, may be ejected in mid-presentation without touching.

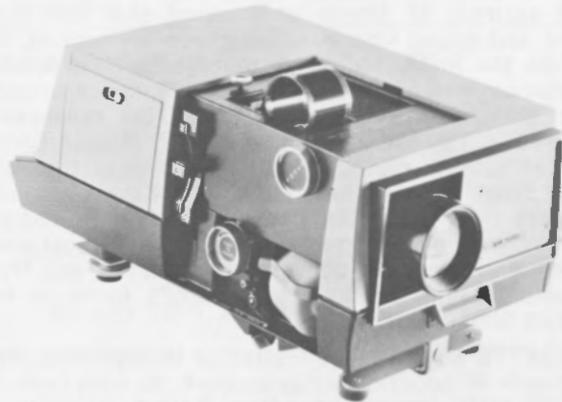
REMOTE CONTROL
 May be operated from up to 30 ft. from projector. Remote advance is "whisper" quiet, no annoying click to distract attention.

ELECTRICAL AND MECHANICAL SPECIFICATIONS:

- | | |
|---|---|
| <p>CONTROLS:
 OFF, FAN, ON, VOLUME, FILM ADVANCE</p> <p>AUDIO:
 STOP/EJECT, PLAY, REWIND, FAST-FORWARD</p> <ul style="list-style-type: none"> • Die-cast Aluminum body • Recessed carrying handle | <ul style="list-style-type: none"> • Lens 5" F/3.2 • Lamp DLN 750w, 120v • Power 117v, 60 Hz, 900w max. • Height 8 1/2", Width 13 3/4", Length 14" • Weight 20 lbs. • UL and CSA listed |
|---|---|

Filmstrip/Slide Projectors

SM-1000 PROJECTOR



FEATURES:

- Projects filmstrips or 2 x 2 slides
- Automatic rewind takeup
- 5" f/3.2 anastigmatic, color-corrected, coated lens; 3", 5" and 7" lenses also available
- 2 condenser lenses
- Self-contained storage for easy handling
- Whisper quiet blower exhausts to rear
- All moving parts shielded for safety. External surfaces always cool to touch
- Three-position switch for fast cooling
- Durable, die cast aluminum frame. Two-tone beige and brown finish
- Remote model equipped with 30' cord and 2-position switch for fingertip selection for forward/reverse or free running rate
- Curved, glassless filmstrip channel eliminates cleaning problems and prevents popping
- Singer accessories custom-designed to fit both models
- Complete with 10' 3 wire power cord

SM-1000 Projector Cat. No. 3920
 SM-100 Projector [Remote Control] ... Cat. No. 3900

SM-400 PROJECTOR



FEATURES:

- Projects 2 x 2 slides or filmstrip.
- Standard ASA code CAL 300-watt Proximity Reflector Lamp.
- Three-Position Rotating Switch (1) Cooling fan and lamp on (2) fan only (3) fan and lamp off.
- Singer exclusive high efficiency condensing and optical system.
- 3-inch f/3.0 Projection Lens, for rapid, wide-range, push-pull focus.
- Optically curved, glassless Filmstrip Gate made of Stainless steel. Easily removed for slide projection.
- Whisper-quiet Cooling System by motor driven fan, safely placed under projection lamp.
- Large, easy-to-grip Filmstrip advance.
- Single lever independent-of-advance-knob Framing.
- Positive, screw adjustment Elevation Control.
- Pull-up Film Retainer. Holds filmstrip without binding.
- Permanently attached, 9-foot long, rubber covered Power Cord.
- Remote operation: Push button with forward/reverse selection switch on 30' cord.
- Listed by Underwriters' Laboratories and Canadian Standards Association.

SM-400 (50-60 cycle, 117 volt operation 3-wire).
 Cat. No. 3532

SM-400RC with filmstrip take-up and 30' remote control cord (50-60 cycle, 117 volt operation 3-wire).
 Cat. No. 3501

SM-400 MANUAL KITS:

Cat. No. 3533 - SM-400 Kit includes:

- Cat. No. 3532 - SM-400 Projector
- Cat. No. 3516 - Filmstrip Feed/take-up attachment
- Cat. No. 3519 - Stack Type Slide Changer
- Cat. No. 3543 - SM Carrying Case for projector and all attachments

SM-400RC REMOTE CONTROL KITS:

Cat. No. 3503 - SM-400RC Kit includes:

- Cat. No. 3519 - Stack-type slide changer
- Cat. No. 3542 - SM Carrying Case for projector and all attachments

Cat. No. 3504 - SM-400RC Kit includes:

- Cat. No. 3960 - Single slide carrier
- Cat. No. 3542 - SM Carrying Case for projector and all attachments

School Master Projector



FEATURES

- Projects filmstrips or 2 x 2 slides.
- Easy threading film strip channel.
- 5" f/3.5 anastigmatic, color-corrected, coated lens.
- 2 condenser lenses and separate heat-absorbing filter in lift-out unit.
- Twin Glass Floating Aperture Plates keep film flat, at correct angle to optical axis.
- Separate elevation and leveling controls.
- Telescoping carrying handle.
- 4-blade, 4" diameter cooling fan, powered by quiet, shaded-pole, lifetime lubricated motor, surrounded by steel safety guard.
- Singer accessories custom-designed to all models.
- Complete with 10' power cord and molded plug.
- All die cast aluminum body.

School Master 750 Watt Projectors

FOR MANUAL OPERATION - Standard 750 watt School Master (Manual) (Model 100) Weighs 11 lbs., 12½" long x 7½" wide x 10¼" high (60 cycle, 117 volt operation).

Cat. No. 3829 (3 wire)

SCHOOL MASTER 750 (Manual) KIT

includes School Master 750 Projector, Standard Carrying Case (Cat. No. 3812) and Semi-Automatic Slide Changer (Cat. No. 3876).

Cat. No. 3832 (3 wire)

FOR REMOTE CONTROL - 750 RC, (Model 101) includes all features forelisted, plus push button remote advance control on 15' cord. Weighs 13 lbs., 4 oz. 12½" long, 9¾" wide, 10¼" high (60 cycle 117 volt operation).

Cat. No. 3827 (3 wire)

SCHOOL MASTER 750 (Remote) KIT

includes School Master 750 Remote Projector, Combination Carrying Case (Cat. No. 3825) and Semi-Automatic Slide Changer (Cat. No. 3876).

Cat. No. 3833 (3 wire)

School Master 500 Watt Projectors

FOR MANUAL OPERATION - Standard 500 Watt lamp School Master (Manual) (Model 102) Weight, 7 lbs., 12 oz. 12" x 15½" x 8¾" dimensions.

- Standard (60 cycle, 117 volt operation)

Cat. No. 3819 (3 wire)

SCHOOL MASTER 500 (Manual) KIT

includes School Master 500 Projector, Standard Carrying Case (Cat. No. 3802), and Semi-Automatic Slide Changer (Cat. No. 3876). (60 cycle, 117 volt operation.)

Cat. No. 3830 (3 wire)

FOR REMOTE CONTROL - 500RC (Model 103) includes all features forelisted, plus push button remote advance control on 15' cord. Weighs 8 lbs., is 12" long, 8¼" wide, 8¾" high.

- Standard (60 cycle, 117 volt operation)

Cat. No. 3820 (3 wire)

SCHOOL MASTER 500 (Remote) KIT

includes School Master 500 Remote Projector, Combination Carrying Case (Cat. No. 3822), and Semi-Automatic Slide Changer (Cat. No. 3876). (60 cycle, 117 volt operation.)

Cat. No. 3831 (3 wire)

Filmstrip/Slide Projector Accessories

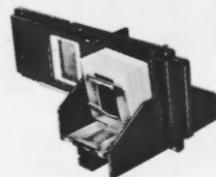
OPTIONAL CARRYING CASES - SM400



Attractive convenient way to carry the projector. Stores the projector, semi-automatic slide changer, a spare lamp, four filmstrips in cans, and a selection of slides.

Manual Case Cat. No. 3543
Remote Case Cat. No. 3542

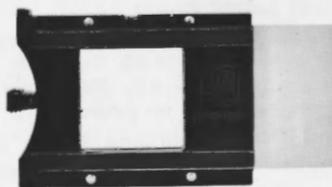
STACK TYPE SLIDE CHANGER - SM-400 and SM-1000



Shows stack of 25 cardboard mounted slides in sequence - automatically. Simple push-pull motion selects and centers slides - returns them to original order. Does not interfere with filmstrip projection. May be left in place when showing filmstrips.

..... Cat. No. 3519

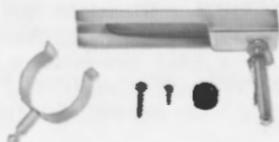
SINGLE SLIDE CHANGER - SM-400 and SM-1000



Easy to use single slide changer does not interfere with filmstrip projection. May be left in place when showing filmstrips. Permits complete flexibility in presentations.

..... Cat. No. 3960

OPTIONAL FILMSTRIP FEED/TAKE-UP KIT - SM-400



Eliminates manual rewinding of filmstrips. Filmstrip feeds directly from the can, through the projector, then winds up automatically, ready for the next showing.

..... Cat. No. 3516

LENSES - SM1000



Long lens, short lens, normal lens . . . take your pick from among Singer SM-1000's four high-quality, bright image designs. Ready to meet your exacting requirements are:

3" f/2.5 lens Cat. No. 3975
5" f/2.8 lens Cat. No. 3976
5" f/3.2 lens (Standard)..... Cat. No. 3977
7" f/3.5 lens Cat. No. 3978

SERIES "00" PROJECTOR LENSES



Lenses for SM-400 Projectors

2", f/3.5 Cat. No. 3845
3", f/3 Cat. No. 3847
4", f/3.5 Cat. No. 3848

School Master Accessories

CARRYING CASES



Combination Carrying Case for School Master 500 (Model 102) with Airequipt Changer or School Master 500 Remote (Model 103) Projector. Accommodates early School Master 300 with Airequipt Changer and early School Master 300 Remote Projectors.

..... Cat. No. 3822

Combination Carrying Case for School Master 750 (Model 100) with Airequipt Changer or School Master 750 Remote (Model 101) Projector. Accommodates early School Master 500 with Airequipt Changer or early School Master 500 Remote Projector.

..... Cat. No. 3825

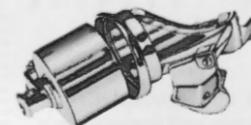
Standard Case for School Master 500 (Model 102). Accommodates earlier School Master 300.

..... Cat. No. 3802

Standard Case for School Master 750 (Model 100). Accommodates earlier School Master 500.

..... Cat. No. 3812

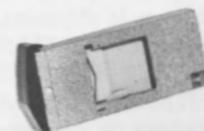
REWIND TAKE-UP



For School Master Projectors. Automatically rewinds film into container ready for next showing. Fits early School Master 300 and School Master 500, as well as, current School Master 500 and School Master 750.

..... Cat. No. 3880
..... Cat. No. 3879

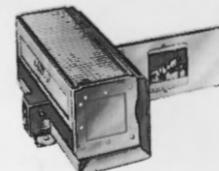
SEMI-AUTOMATIC SLIDE CHANGER (SCSA)



For all School Master Projectors.

..... Cat. No. 3876

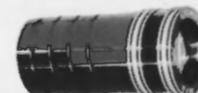
AIREQUIPT MAGAZINE



Holds 36 slides for use with Airequipt Automatic Slide Changer.

..... Cat. No. 3873

SERIES "S" LENSES



For School Master Projectors.

3", f/3.5 Cat. No. 3573
5", f/3.5 Cat. No. 3572

Replacement Lamps (NOT ON CONTRACT)

PROJECTOR	PART NO.	WATTS	VOLTS	ANSI TYPE	BASE	PRICE
SCHOOLMASTER 500 (CURRENT)	37785-P1	500	120 (25 hr)	DAK	TRU-FOCUS	\$ 7.50
	37785-P2	500	220	DBS	TRU-FOCUS	—
	37785-P3	500	120 (25 hr)	DAY	TRU-FOCUS	9.40
(Early Model 49)	37762	500	120 (25 hr)	CZX	MED-PREF	8.00
SCHOOLMASTER 750	37778-P1	750	120 (25 hr)	DEP	TRU-FOCUS	7.85
SM-1000	41102-P1	750	120 (25 hr)	DLN	TRU-FOCUS	11.15
SM-200	37922	150	120	CAR	TRU-FOCUS	5.65
	39572	150	220	CXG	TRU-FOCUS	—
SM-400	40265-P1	300	120 (25 hr)	CAL	TRU-FOCUS	7.40
	40265-P2	300	220	CXS	TRU-FOCUS	—

YOUR EDUCATION SYSTEMS WARRANTY

Education Systems merchandise is warranted to the initial purchaser by Education Systems and the Education Systems dealer to be free from manufacturing defects in material and workmanship under normal use and service for a period of one year after sale (90 days in case of electronic components). This warranty does not apply to any Education Systems equipment which has been tampered with or repaired by persons other than authorized Education Systems service stations or which has been subjected to misuse or abuse or which has not been registered with Education Systems by means of a registration card within 60 days from date of purchase. Liability under this warranty is limited to repair or replacement of defective part or merchandise. Returns for servicing should be made to point of purchase. Transportation charges are payable by the owner and Education Systems is not responsible for damage in shipment. EXCEPT AS EXPRESSLY SET FORTH HEREIN NO OTHER WARRANTIES ARE MADE BY EDUCATION SYSTEMS OR YOUR EDUCATION SYSTEMS DEALER WITH RESPECT TO EDUCATION SYSTEMS MERCHANDISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE AND OF MERCHANTABILITY. No liability is assumed for expenses or damages resulting from interruptions in operation of equipment, nor for incidental or consequential damages of any nature.



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