Microfiche viewers and viewer-printers available in the United States in 1973 are described. General evaluation criteria are first discussed to assist the potential buyer in developing a frame of reference for making judgments. Following this, detailed specifications, including photographs of the equipment, are uniformly listed for each of the 92 models surveyed. Features discussed include: model name, lenses available, fiche size accepted, screen size, screen type, positioning controls, optical system, rated lamp life, additional features available at no extra cost, optional extra-cost accessories, warranty period, list price, and discounts offered. Additional information is provided for those viewers capable of printing full-sized paper copies, including the process used, print speed, print size and print cost. (PB)
MICROFICHE VIEWING EQUIPMENT GUIDE

Ronald F. Gordon
Directorate of Development

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3rd Edition

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DEFENSE DOCUMENTATION CENTER
Defense Supply Agency
Cameron Station
Alexandria, Virginia 22314
# MICRÖFICHE VIEWING EQUIPMENT GUIDE

**A descriptive directory of microfiche viewers and viewer-printers that are manufactured or distributed in the United States through mid-1973. General evaluation criteria have been outlined to assist the potential buyer.**

Detailed specifications, features, and photographs are uniformly listed for each of the 92 models surveyed.
PREFACE

The Defense Documentation Center (DDC), a major producer of microfiche for the Department of Defense (DoD) and its contractors, has published this equipment guide in an effort to assist the users and potential users of microfiche. This report updates and supersedes AD 734 400 that was published in December 1971.

Information about currently available microfiche viewing equipment was requested from all known viewer manufacturers and/or distributors located in the United States. The prices and related data included in this guide were supplied by cooperating companies and were current in June 1973. Features and specifications have been uniformly listed to aid comparison of the viewers and viewer-printers surveyed. The inclusion or exclusion of a product shall not be interpreted as an endorsement or criticism of that product by the U.S. Government.

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# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>1</td>
</tr>
<tr>
<td>Bell &amp; Howell Company</td>
<td>5</td>
</tr>
<tr>
<td>AM Bruning</td>
<td>19</td>
</tr>
<tr>
<td>BAGA Corporation</td>
<td>25</td>
</tr>
<tr>
<td>A. R. Dick Company</td>
<td>27</td>
</tr>
<tr>
<td>Dietzgen Corporation</td>
<td>29</td>
</tr>
<tr>
<td>Dukane Corporation</td>
<td>33</td>
</tr>
<tr>
<td>Eastman Kodak Company</td>
<td>35</td>
</tr>
<tr>
<td>Eastman Kodak Company</td>
<td>35</td>
</tr>
<tr>
<td>Electro-Optical Mechanisms, Inc.</td>
<td>43</td>
</tr>
<tr>
<td>EXAC-TICS Corporation</td>
<td>47</td>
</tr>
<tr>
<td>GAF Corporation</td>
<td>49</td>
</tr>
<tr>
<td>Karl Heitz, Inc.</td>
<td>63</td>
</tr>
<tr>
<td>Library Resources, Inc.</td>
<td>65</td>
</tr>
<tr>
<td>Metagraphic Systems</td>
<td>69</td>
</tr>
<tr>
<td>Micro Information Systems, Inc.</td>
<td>71</td>
</tr>
<tr>
<td>Micro-Scan Systems, Inc.</td>
<td>75</td>
</tr>
<tr>
<td>Microtech Press</td>
<td>83</td>
</tr>
<tr>
<td>Micronvision Inc.</td>
<td>85</td>
</tr>
<tr>
<td>3M Company</td>
<td>87</td>
</tr>
<tr>
<td>NCR, Systemedia Division</td>
<td>97</td>
</tr>
<tr>
<td>Northwest Microfilm, Inc.</td>
<td>105</td>
</tr>
<tr>
<td>Oce' Industries, Inc.</td>
<td>107</td>
</tr>
<tr>
<td>Quantor Corporation</td>
<td>109</td>
</tr>
</tbody>
</table>
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Readex Microprint Corporation</td>
<td>111</td>
</tr>
<tr>
<td>Realist, Inc.</td>
<td>113</td>
</tr>
<tr>
<td>SEACO Computer-Display, Inc.</td>
<td>125</td>
</tr>
<tr>
<td>Sperry Remington, Office Systems Division</td>
<td>129</td>
</tr>
<tr>
<td>Stromberg Datagraphix</td>
<td>139</td>
</tr>
<tr>
<td>Syner Graphics</td>
<td>143</td>
</tr>
<tr>
<td>Taylor-Merchant Corporation</td>
<td>145</td>
</tr>
<tr>
<td>Teledyne Post</td>
<td>151</td>
</tr>
<tr>
<td>Visidyne</td>
<td>153</td>
</tr>
<tr>
<td>Washington Scientific Industries Micrographics</td>
<td>159</td>
</tr>
</tbody>
</table>
INTRODUCTION

"Microfiche," as defined by the National Microfilm Association (NMA), is a sheet of microfilm containing multiple microimages in a grid pattern and a header information area which can be read without magnification. The most widely-used microfiche standard in the United States is the 98-frame NMA format at a 24:1 reduction ratio. The above standard fiche, which measures 105mm x 143mm (approximately 4" x 6") in size, is described in detail in NMA's newly published standard MS5-1972. American National Standards Institute (ANSI) has published a standard entitled, "Specifications for Microfiches" (PH5.9-1970) that incorporates the NMA format and also a 20X 60-frame format. In an effort to further standardization, COSATI voted in 1971 to abandon the 20X format in favor of the NMA 24X 98-frame format. Most Government producers of fiche (including DDC) have now switched to the NMA format. Ultrafiche at reduction ratios ranging from 100X to 210X have not been officially standardized.

Many new microfiche applications are now being produced on Computer-Output-Microfilm (COM) equipment. COM recorders have the capability to expose 105mm fiche (or roll film) directly from computer magnetic tape at speeds up to 1,200 pages per minute. Some available units produce "ready to use" data by developing the fiche within the same device; output from others must be developed in a separate film processor. The NMA has published a COM standard (MS2-1971) that establishes the effective reduction ratio at 24X, however, fiche formats at 42X and 48X have become commonplace. The Department of Defense (DoD), for example, recently standardized on 48X for its CCM-produced Federal Catalogs. The 48X format at 270 frames per fiche contains 62 frames more than the similar 42X version. Large-scale use of the higher compacted DoD fiche will probably cause an early death of the nonstandard 42X format.

This updated microfiche viewer and viewer-printer compendium has been published so that DDC microfiche users and others may keep astride of the rapidly advancing state of the art. Microform viewer manufacturers/distributors located in the United States were contacted in the gathering of descriptive materials; only those models selected by cooperating companies have been included. Information and photographs of new viewer models are solicited and should be sent to DDC for inclusion in future equipment publications.

User objectives should be adequately defined for proper appraisal of viewing equipment features. Some of the requirements to be considered are: microform flexibility, use frequency, portability, ambient light conditions, and hard copy printout needs. To assure full acceptance of microfiche; careful attention should be paid to human-engineered equipment features. Controls should be easy to use; film loading should be simple; and projected images should be bright, sharp, and glare free.

---

*National Microfilm Association, Suite 1101, 8728 Colesville Road, Silver Spring, Maryland 20910.

**American National Standards Institute, 1430 Broadway, New York, New York 10018.
To properly evaluate these and other subjective factors, one should try his own microfiche on prospective equipment. Some important characteristics to look for in microfiche viewing equipment are listed below; they are, however, not necessarily listed in order of importance.

- Constant Frame-to-Frame Focus
- Full-Page Viewing
- Long Lamp Life
- Uniform Screen Brightness
- Uniform Across-Section Focus
- Easy Frame-to-Frame Scanning
- Convenient Loading and Unloading
- Easy-to-Reach Controls
- Image Rotation Provision
- Low Operating Temperature
- Convenient Lamp Replacement
- Low Noise Level
- Variable Light Control
- Nonglare Screen
- Frame Location Index
- Vibration-Free Image

Look for the following viewer-printer characteristics as well as those listed above:

- Sharp Contrasting Prints
- Fast Printing Cycle
- Print Curl and Fade Resistance
- Long Paper Shelf Life
- Easy Paper Loading
- Jam-Proof Operation
- Low Copy Cost
Equipment descriptions used throughout have been arranged in a standard format to aid comparison. Manufacturer names appear alphabetically with the products of each in ascending order of price. A full-page photograph and detailed description are provided for each unit. An explanation of the feature terms used follows:

MODEL - The name and/or number supplied by the manufacturer for viewer identification.

LENSES AVAILABLE - Most viewer models offer a choice of lenses but are normally supplied with only one. The lens (magnification) selected should be relatively close to the reduction ratio of the microfiche in use.

FICHE SIZE ACCEPTED - The maximum outside dimension of a microfiche or jacket that is accommodated in the unit's glass flat or film carrier.

SCREEN SIZE - Selection of screen size (and lens) should closely simulate the size of the original document.

SCREEN TYPE - Most microfiche viewer screens are of the rear projection type; images are projected to the rear and through a translucent screen. Reflective opaque screens are used in the front projection models.

POSITIONING CONTROLS - Description of the microfiche carrier mechanism that positions the image on the screen.

OPTICAL SYSTEM - Pertinent information concerning lenses, lamps, etc., is described.

RATED LAMP LIFE - The cumulative amount of time that a projection lamp can be expected to last in the equipment.

OTHER FEATURES - Additional features provided with basic unit at no cost.

ACCESSORIES - Optional extra-cost items that are offered to increase versatility or convenience.

WARRANTY PERIOD - The period of time a manufacturer guarantees to the original owner that the unit is free of manufacturing defects. Equipment failure due to misuse or accident and lamps are usually excluded from the warranty. Repair work, which normally includes parts and labor, is accomplished without charge.

LIST PRICE - The price listed is for a single unit as of June 1973. Quantity orders are usually discounted.

GSA SCHEDULE - The Federal Government's discount price for a single unit available through the General Services Administration. Further discounts are common for quantity orders.

READER-PRINTER - Additional information is provided for those viewers capable of printing full-size paper copy.
BELL & HOWELL COMPANY Briefcase Reader
MANUFACTURER/DISTRIBUTOR
Bell & Howell Company

ADDRESS
6800 McCormick Road
Chicago, Illinois 60645

MODEL
Fricase Reader

LENSES AVAILABLE
Nominal 20x

FICHE SIZES ACCEPTED
4" x Any Length

SCREEN SIZE
5 5/8" x 0"n

SCREEN COLOR
Gray

SCREEN TYPE
Fresnel or Polacoat
Rear Projection

POSITIONING CONTROLS
Thumb Turn Glide

OPTICAL SYSTEM
Retro Reflective

RATED LAMP LIFE
500 Hours

POWER REQUIREMENT
117 VAC 60 Hz

CONSTRUCTION MATERIAL
High Impact Plastic

WEIGHT AND DIMENSIONS
5 lbs.
Closed: 3 1/2" H, 9 3/4" W, 1 1/2" D
Open: 6 1/2" H, 12 5/8" W, 2 1/4" D

OTHER FEATURES
Can be used as Wall Projector

ACCESSORIES
Fricase Case
Desk Stand
12-Volt Adapter Cord

WARRANTY PERIOD
90 Days Service
1 Year Parts

LIST PRICE
$99.00

GSA SCHEDULE
6% Discount

READER-PRINTER (if applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
Bell & Howell Company

ADDRESS
6400 McCormick Road
Chicago, Illinois 60611

MODEL

LENSES AVAILABLE
18x, 24x, 32x, 40x, or 48x

FICHE SIZES ACCEPTED
4" x 6" or 4" x 7 3/8"

SCREEN SIZE
5 1/2" x 3 1/2"

SCREEN COLOR
Gray

SCREEN TYPE
Fresnel

POSITIONING CONTROLS
Single Fingertip Control

OPTICAL SYSTEM
Floating Lens
Maintains Constant Focus

RATED LAMP LIFE
250 Hours

POWER REQUIREMENT
117 VAC 50/60 Hz

CONSTRUCTION MATERIAL
Steel and Aluminum

WEIGHT AND DIMENSIONS
18 lbs.
13" H, 9 1/2" W, 13 1/4" D

OTHER FEATURES
UL Approved

ACCESSORIES
Screen Hood Extension
Reader Turntable

WARRANTY PERIOD
90 Days Service
1 Year Parts

LIST PRICE
$125.00

GSA SCHEDULE
6% Discount

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
BELL & HOWELL COMPANY Model SR 1
MODEL

LENSES AVAILABLE
1", 2", or 3"

FICHE SIZES ACCEPTED
2 1/4" x 3" or 3" x 7 1/2"

SCREEN SIZE
1/2" x 11"

SCREEN COLOR
Blue, Gray, or Green

SCREEN TYPE
Non-glare, Rear Projection

POSITIONING CONTROLS
Single Fingertip Control

OPTICAL SYSTEM
Floating Lens
Maintains Constant Focus

RATED LAMP LIFE
500 Hours

POWER REQUIREMENT
117 VAC 50/60 Hz

CONSTRUCTION MATERIAL
Steel

WEIGHT AND DIMENSIONS
55 lbs.
18 1/2" H, 24 1/2" W, 11" D

OTHER FEATURES
Variable Bright Control
UP Approved

ACCESSORIES
Floor Stand
Screen Hood Extension

WARRANTY PERIOD
90 Days Service
1 Year Parts

LIST PRICE
$159.00

GSA SCHEDULE
5% Discount

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
Bell & Howell Company

ADDRESS
6800 McCormick Road
Chicago, Illinois 60645

MODEL
SR II

LENSES AVAILABLE
18X, 24X, 32X, or 40X

FICHE SIZES ACCEPTED
4" x 6" or 4" x 7 3/8"
4" x 12" (Optional)

SCREEN SIZE
11" x 8 1/2"

SCREEN COLOR
Blue, Gray, or Green

SCREEN TYPE
Nonglare, Rear Projection

POSITIONING CONTROLS
Single Fingertip Control

OPTICAL SYSTEM
Floating Lens
Maintains Constant Focus

RATED LAMP LIFE
500 Hours

POWER REQUIREMENT
117 VAC 50/60 Hz

CONSTRUCTION MATERIAL
Steel and Aluminum

WEIGHT AND DIMENSIONS
24 lbs.
15" H, 12" W, 19" D

OTHER FEATURES
Automatic Opening Glass Flats
Variable Light Intensity
UL Approved

ACCESSORIES
Floor Stand, Reader Turntable,
Screen Hood, Extension, Dual Lens
Capability

WARRANTY PERIOD
90 Days Service
1 Year Parts

LIST PRICE
Single Lens Model $170.00
Dual Lens Model $175.00

GSA SCHEDULE
6% Discount

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
Bell & Howell Company

ADDRESS
6800 McCormick Road
Chicago, Illinois 60645

MODEL
SR IV

LENSES AVAILABLE
24X, 32X, 42X, or 50X

FICHE SIZES ACCEPTED
4" x 6" or 4" x 7 3/8"
4" x 12" (Optional)

SCREEN SIZE
15" x 11"

SCREEN COLOR
Blue, Gray, or Green

SCREEN TYPE
Nonglare, Rear Projection

POSITIONING CONTROLS
Single Fingertip Control

OPTICAL SYSTEM
Floating Lens
Maintains Constant Focus

RATED LAMP LIFE
500 Hours

POWER REQUIREMENT
117 VAC 50/60 Hz

CONSTRUCTION MATERIAL
Steel and Aluminum

WEIGHT AND DIMENSIONS
33 lbs.
19" H, 16 1/2" W, 25" D

OTHER FEATURES
Variable Light Intensity
Automatic Opening Glass Flats
UL Approved

ACCESSORIES
Floor Stand, Reader Turntable, Screen Hood, Extension

WARRANTY PERIOD
90 Days Service
1 Year Parts

LIST PRICE
$265.00

GSA SCHEDULE
6% Discount

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
Bell & Howell Company

ADDRESS
6800 McCormick Road
Chicago, Illinois 60645

MODEL
SR III

LENSES AVAILABLE
24X, 32X, 42X, or 50X

FICHES SIZES ACCEPTED
4" x 6" or 4" x 7 3/8"
4" x 12" (Optional)

SCREEN SIZE
19" x 11"

SCREEN COLOR
Blue, Gray, or Green

SCREEN TYPE
Non-glare, Rear Projection

POSITIONING CONTROLS
Single Fingertip Control

OPTICAL SYSTEM
Floating Lens
Maintains Constant Focus

RATED LAMP LIFE
500 Hours

POWER REQUIREMENT
117 VAC 50/60 Hz

CONSTRUCTION MATERIAL
Steel and Aluminum

WEIGHT AND DIMENSIONS
35 lbs.
19" H, 19 3/4" W, 25" D

OTHER FEATURES
Variable Light Intensity,
Automatic Opening Glass Flats
UL Approved

ACCESSORIES
Floor Stand, Reader Turntable,
Screen Hood Extension, Dual
Lens Capability

WARRANTY PERIOD
90 Days Service
1 Year Parts

LIST PRICE
Single Lens Model $325.00
Dual Lens Model $385.00

GSA SCHEDULE
6% Discount

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
BELL & HOWELL COMPANY Reporter Reader-Printer
MANUFACTURER/DISTRIBUTOR
Bell & Howell Company

ADDRESS
6800 McCormick Road
Chicago, Illinois 60645

MODEL
Reporter Reader-Printer

LENSES AVAILABLE
16.5X, 18X, 21X, 24X, 32X, or 40X

FICHE SIZES ACCEPTED
Up to 6" x 6"

SCREEN SIZE
11" x 11"

SCREEN COLOR
Gray

SCREEN TYPE
Nonglare, Rear Projection

POSITIONING CONTROLS
Single Fingertip Control

OPTICAL SYSTEM
Easy Focus

RATED LAMP LIFE
500 Hours

POWER REQUIREMENT
117 VAC 60 Hz

CONSTRUCTION MATERIAL
Heavy Gauge Steel

WEIGHT AND DIMENSIONS
145 lbs.
29" H, 18" W, 25" D

OTHER FEATURES
Half Size Print, Self Opening
Glass Flats, Image Rotation (32X Model)

ACCESSORIES
Lazy Susan, Floor Stand

WARRANTY PERIOD
90 Days Service
1 Year Parts

LIST PRICE
$1,675.00 (18X, 21X, or 24X)
Other Lenses Slightly Higher

GSA SCHEDULE
6% Discount

READER-PRINTER (If applicable)

PROCESS
Dry, Electrophotographic

PRINT SPEED
5 Second

PRINT SIZE
8 1/2" x 11" or 5 1/2" x 8 1/2"

PRINT COST
$0.02 to $0.05 per Copy
**MANUFACTURER/DISTRIBUTOR**
Am Bruning

**ADDRESS**
1831 Walden Office Square
Schaumburg, Illinois 60172

<table>
<thead>
<tr>
<th><strong>MODEL</strong></th>
<th>Am Bruning 175 Microlite (Other Models Available)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LENS AVAILABLE</strong></td>
<td>18X, 24X, 32X, 40X, or 48X</td>
</tr>
</tbody>
</table>
| **WEIGHT AND DIMENSIONS** | 18 lbs.  
13" H, 9 1/2" W, 13 1/4" D |
| **OTHER FEATURES** | Various Grids Available |
| **ACCESSORIES** | Screen Hood Extension  
Turntable  
Dust Cover |
| **WARRANTY PERIOD** | 6 Months |
| **LIST PRICE** | $125.00 |
| **GSA SCHEDULE** | N/A |

**SCREEN SIZE**
8 1/2" x 5 1/2"

**SCREEN COLOR**
Gray

**POSITIONING CONTROLS**
Fingertip Selector  
X-Y Index

**OPTICAL SYSTEM**
12 Volt Auto Lamp  
Floating Lens

**RATED LAMP LIFE**
250 Hours

**POWER REQUIREMENT**
110-120 VAC 50/60 Hz

**CONSTRUCTION MATERIAL**
Steel and Aluminum
MANUFACTURER/DISTRIBUTOR
AM Bruning

ADDRESS
1834 Walden Office Square
Schaumburg, Illinois 60172

MODEL
AM Bruning 550 Reader/Printer

LENSES AVAILABLE
15X, 24X, 32X, or 42X

FICHE SIZES ACCEPTED
Up to 105mm x 148mm

SCREEN SIZE
11" x 11"

SCREEN COLOR
Blue, Gray, or Green

SCREEN TYPE
Rear Projection

POSITIONING CONTROLS
Fingertip, Grid Selector

OPTICAL SYSTEM
Floating Lens

RATED LAMP LIFE
125 Hours (High Brightness)
500-1000 Hours (Low Brightness)

POWER REQUIREMENT
110-120 VAC
(220 VAC Available)

CONSTRUCTION MATERIAL
Steel and Aluminum

WEIGHT AND DIMENSIONS
70 lbs.
23" H, 15" W, 28" D

OTHER FEATURES
Prints From Either Polarity
High-Low Lamp Control

ACCESSORIES
None

WARRANTY PERIOD
6 Months

LIST PRICE
$875.00

GSA SCHEDULE
N/A

READER-PRINTER (If applicable)

PROCESS
Electrostatic

PRINT SPEED
8 Seconds

PRINT SIZE
6 Sizes, Up to 11" x 11"

PRINT COST
MANUFACTURER/DISTRIBUTOR
AM Bruning

ADDRESS
1834 Walden Office Square
Schaumburg, Illinois 60172

MODEL
AM Bruning 95 Retrieval/Reader

WEIGHT AND DIMENSIONS
75 lbs.
20" H, 18" W, 24" D

LENSES AVAILABLE
20X, 24X, 27X, 42X, or 48X

OTHER FEATURES
No Notching or Coding Required
3-Second Retrieval

FICHE SIZES ACCEPTED
Thirty 105mm x 148mm Fiche Per Cartridge

ACCESSORIES
Cartridges

SCREEN SIZE
14" x 14"

WARRANTY PERIOD
90 Days (Parts Only)

SCREEN COLOR
Neutral

LIST PRICE
$2,475.00 - $2,995.00

SCREEN TYPE
Rear Projection

GSA SCHEDULE
N/A

POSITIONING CONTROLS
Automatic Pushbutton

READER-PRINTER (If applicable)

OPTICAL SYSTEM
100 Watt Tungsten Lamp

PROCESS

RATED LAMP LIFE
Not Available

PRINT SPEED

POWER REQUIREMENT
115 VAC

PRINT SIZE

CONSTRUCTION MATERIAL
High-Impact Plastic and Metal

PRINT COST
MANUFACTURER/DISTRIBUTOR
DASA Corporation

ADDRESS
15 Stevens Street
Andover, Massachusetts 01810

MODEL
PMR/50

WEIGHT AND DIMENSIONS
7 1/2 lbs.
13" H, 13" W, 7 3/4" D

LENSES AVAILABLE
20X or 24X

OTHER FEATURES
Portable

FICHE SIZES ACCEPTED
105mm x 148mm

ACCESSORIES
Cover
Carrying Case

SCREEN SIZE
8 1/2" x 11"

WARRANTY PERIOD
90 Days

SCREEN COLOR
Beige

LIST PRICE
20X - $109.50
24X - $119.50

SCREEN TYPE
Plastic, Rear Projection

GSA SCHEDULE
20X - $84.13
24X - $94.13

POSITIONING CONTROLS
Manual with Indexer

READER-PRINTER (If applicable)

OPTICAL SYSTEM
Tungsten Lamp
GE-1195

PROCESS

RATED LAMP LIFE
Not Available

PRINT SPEED

POWER REQUIREMENT
110 VAC 20 Watts

PRINT SIZE

CONSTRUCTION MATERIAL
Plastic

PRINT COST
A. B. DICK COMPANY Model 810 Microfiche Reader-Printer.
MANUFACTURER/DISTRIBUTOR
A. P. Dick Company

ADDRESS
5700 W. Touhy Avenue
Chicago, Illinois 60648

MODEL
310 Microfiche Reader-Printer

WEIGHT AND DIMENSIONS
320 lbs.
50" H, 36" W, 23" D

LENSES AVAILABLE
17.3X, 20.7X, 36.3X, and 41.5X

OTHER FEATURES
Variable Copy Cut-Off
Multiple Copy Counter

FICHE SIZES ACCEPTED
Interchangeable Carriers Accept
4" x 6" to 4" x 12" or 4" x 6" to
6" x 8"

ACCESSORIES
Receiving Tray, Receiving Rack

SCREEN SIZE
11 1/2" x 15 1/2"

WARRANTY PERIOD
1 Year

SCREEN COLOR
Neutral Gray

LIST PRICE
$2,350.00

SCREEN TYPE
Monglare

GSA SCHEDULE
$2,210.00

POSITIONING CONTROLS
Manual Glass Flats

READER-PRINTER (If applicable)

OPTICAL SYSTEM
Rear Projection

PROCESS
Electrofax

RATED LAMP LIFE
100 Hours

PRINT SPEED
1st Copy - 10 Seconds
Multiple Copies - 12 per Minute

POWER REQUIREMENT
115 VAC 60 Hz 3 Amp

PRINT SIZE
3" x 5 1/2" to 10" x 15"

CONSTRUCTION MATERIAL
Steel and Formica Table Top

PRINT COST
$0.02 - $0.04
MANUFACTURER/DISTRIBUTOR
Dietzgen Corporation

ADDRESS
2425 Sheffield Avenue
Chicago, Illinois 60614

MODEL
4309

LENSES AVAILABLE
24X, 32X, 42X or 48X
(80% Blowback)

FICHE SIZES ACCEPTED
105mm x 148mm
(Carrier 4" x 7 3/8")

SCREEN SIZE
11 5/8" x 9 1/4"

SCREEN COLOR
Green

SCREEN TYPE
Nonglare, Rear Projection

POSITIONING CONTROLS
Bar with X-Y Indexing

OPTICAL SYSTEM
250 Watt Quartz Halogen Lamp

RATED LAMP LIFE
300 Hours

POWER REQUIREMENTS
117 VAC 50/60 Hz
220 VAC (Optional)

CONSTRUCTION MATERIAL
High-Impact Plastic

WEIGHT AND DIMENSIONS
17 lbs.
19 5/8" H, 17" W, 15" D

OTHER FEATURES
Constant Focus
Fan Cooled

ACCESSORIES
None

WARRANTY PERIOD
90 Days

LIST PRICE
$139.00

GSA SCHEDULE
N/A

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
Dietzgen Corporation

ADDRESS
2425 Sheffield Avenue
Chicago, Illinois 60614

MODEL
Modular Microform Reader
Models 4322, 4323 and 4324

LENSES AVAILABLE
20X, 25X, 38X, 42X or 49X

FICHE SIZES ACCEPTED
Up to 4” x 7 3/8”
(105mm x 187.3mm)

SCREEN SIZE
Model 4322 - 12” x 12”
Model 4323 - 15” x 12”
Model 4324 - 19” x 12”

SCREEN COLOR
Gray

SCREEN TYPE
Nonglare, Rear Projection

POSITIONING CONTROLS
Counterbalanced Carrier with
Omni-Vision Index

OPTICAL SYSTEM
Quartz Halogen Lamp
Floating Lens

RATED LAMP LIFE
High Control - 750 Hours
Low Control - 1500 Hours

POWER REQUIREMENT
115 VAC 60 Hz, 230 Watts

CONSTRUCTION MATERIAL
Metal and Plastic

WEIGHT AND DIMENSIONS
40-50 lbs.
23” H, 13” W, 15” D

OTHER FEATURES
Self-Opening Flats
Fan Cooled

ACCESSORIES
None

WARRANTY PERIOD
90 Days

LIST PRICE
Model 4322: $295.00
Model 4323: $355.00
Model 4324: $410.00

GSA SCHEDULE
Model 4322: $250.75
Model 4323: $301.75
Model 4324: $348.50

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
DUKANE CORPORATION Model 27A25B
MANUFACTURER/DISTRIBUTOR
Dukane Corporation
Special Products Division
ADDRESS
2900 Dukane Drive
St. Charles, Illinois 60174

MODEL
27A25P

LENSES AVAILABLE
15X, 18X, 24X, or 27X

FICHE SIZES ACCEPTED
Up to 4" x 6"

SCREEN SIZE
14" x 14"

SCREEN COLOR
Gray

SCREEN TYPE
Non-glare, Rear Projection

POSITIONING CONTROLS
X-Z Axis Knobs

OPTICAL SYSTEM
Quartz Halogen Lamp
(Fan Cooled)

RATED LAMP LIFE
1000 Hours

POWER REQUIREMENT
120 VAC, 50-60 Hz or
240 VAC, 50 Hz

CONSTRUCTION MATERIAL
Metal and Wood

WEIGHT AND DIMENSIONS
45 lbs.
26" H, 14 3/4" W, 18" D

OTHER FEATURES
90 Degree Rotation
Variable Light Intensity Control
UL Listed

ACCESSORIES
99A500C, 35mm and 16mm Roll
Film Adaptor
99A545 Fiche Adaptor

WARRANTY PERIOD
1 Year

LIST PRICE
$372.50 to $417.50
(Fiche Adaptor - $65 Extra)

GSA SCHEDULE
GS-00S-12880

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
Fastman Kodak Company
Business Systems Markets Division
ADDRESS
343 State Street
Rochester, New York 14650

MODEL
Ektalite 120 Reader
Ektalite 140 Reader

LENSES AVAILABLE
Model 120 - 20X
Model 140 - 40X

FICHE SIZES ACCEPTED
4 1/8" Wide x any length more than 3"

SCREEN SIZE
5 3/4" x 7 3/4"

SCREEN COLOR
Neutral

SCREEN TYPE
Front Projection

POSITIONING CONTROLS
Slide Carriage for Row Positioning and Rotating Knob for Column Positioning

OPTICAL SYSTEM
12V Lamp (Automobile Type)

RATED LAMP LIFE
250 Hours

POWER REQUIREMENT
120 VAC 50/60 Hz
(12V with Adapter)

CONSTRUCTION MATERIAL
High-Impact Plastic

WEIGHT AND DIMENSIONS
6 lbs.
13" H, 8 3/8" W, 10 3/4" D

OTHER FEATURES
Built-In Line Finder
Ambient Light Filter

ACCESSORIES
12V DC Adapter Cord
Carrying Case

WARRANTY PERIOD
3 Months (Commercial)
12 Months (GSA)

LIST PRICE
Model 120: $39.95
Model 140: $119.95

GSA SCHEDULE
Model 120: $93.95
Model 140: $108.05

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
**MANUFACTURER/DISTRIBUTOR**
Eastman Kodak Company
Business Systems Markets Division

**ADDRESS**
343 State Street
Rochester, New York 14650

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Recordak Easamatic Model P4CD</th>
</tr>
</thead>
<tbody>
<tr>
<td>LENSES AVAILABLE</td>
<td>18.5X, 21.5X, 23X, 25.5X, or 31X</td>
</tr>
<tr>
<td>FICHE SIZES ACCEPTED</td>
<td>4&quot; x 6&quot; and 3 1/4&quot; x 7 3/8&quot;</td>
</tr>
<tr>
<td>SCREEN SIZE</td>
<td>16 1/4&quot; x 11&quot;</td>
</tr>
<tr>
<td>SCREEN COLOR</td>
<td>Neutral</td>
</tr>
<tr>
<td>SCREEN TYPE</td>
<td>Rear Projection</td>
</tr>
<tr>
<td>POSITIONING CONTROLS</td>
<td>Pointer Knob and Index Grid</td>
</tr>
</tbody>
</table>

**WEIGHT AND DIMENSIONS**
20 lbs.
19" H, 19" W, 21" D

**OTHER FEATURES**
Interchangeable Index Grid Card

**ACCESSORIES**
Reader Base (To Alter Screen Angle)

**WARRANTY PERIOD**
3 Months (Commercial)
12 Months (GSA)

**LIST PRICE**
$220.00
$245.00 (31X Model)

**GSA SCHEDULE**
$206.80
$230.30 (31X Model)

**READER-PRINTER** (If applicable)

**PROCESS**

**PRINT SPEED**

**PRINT SIZE**

**PRINT COST**

**CONSTRUCTION MATERIAL**
High-Impact Plastic and Metal
MANUFACTURER/DISTRIBUTOR
Eastman Kodak Company
Business Systems Markets Division
ADDRESS
343 State Street
Rochester, New York 14650

MODEL
Easamat 40 Reader

WEIGHT AND DIMENSIONS
24 lbs.
21" H, 19" W, 21" D

LENSES AVAILABLE
40X

OTHER FEATURES
Interchangeable Index Grid Cards

FICHE SIZES ACCEPTED
4" x 6" and 3 1/4" x 7 3/8"

ACCESSORIES
Reader Base (To Alter Screen Angle)

SCREEN SIZE
15 1/4" x 10 1/2"

WARRANTY PERIOD
3 Months (Commercial)
12 Months (GSA)

SCREEN COLOR
Neutral

LIST PRICE
$365.00

SCREEN TYPE
Rear Projection

GSA SCHEDULE
$249.10

POSITIONING CONTROLS
Pointer Knob and Index Grid

READER-PRINTER (If applicable)

OPTICAL SYSTEM

PROCESS

RATED LAMP LIFE
Not Available

PRINT SPEED

POWER REQUIREMENT
120 VAC 50/60 Hz

PRINT SIZE

CONSTRUCTION MATERIAL
High-Impact Plastic and Metal

PRINT COST
EASTMAN KODAK COMPANY Recordak Model PK-1013
MANUFACTURER/DISTRIBUTOR
Eastman Kodak Company
Business Systems Markets Division
ADDRESS
343 State Street
Rochester, New York 14650

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Recordak Model PK-1013</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEIGHT AND DIMENSIONS</td>
<td>39.1 lbs.</td>
</tr>
<tr>
<td></td>
<td>27&quot; H, 13 1/2&quot; W, 18 1/2&quot; D</td>
</tr>
<tr>
<td>OTHER FEATURES</td>
<td>360° Image Rotation</td>
</tr>
</tbody>
</table>

| LENSES AVAILABLE | 18X or 23X |
| OTHER FEATURES   | 360° Image Rotation |
| ACCESSORIES      | None |
| WARRANTY PERIOD  | 3 Months (Commercial) |
|                  | 12 Months (GSA) |
| LIST PRICE       | $540.00 |
| GSA SCHEDULE     | $423.00 |
| PROCESS          | |
| PRINT SPEED      | |
| PRINT SIZE       | |
| PRINT COST       | |

| FICHE SIZES ACCEPTED | 5 3/16" x 8" |
| SCREEN SIZE          | 10 1/2" x 13 1/4" |
| SCREEN COLOR         | Green-Tinted |
| SCREEN TYPE          | Rear Projection |
| POSITIONING CONTROLS | Single Knob for Row or Column Positioning |
| OPTICAL SYSTEM       | |
| RATED LAMP LIFE      | Not Available |
| POWER REQUIREMENT    | 115 VAC 50/60 Hz |
| CONSTRUCTION MATERIAL | Metal and Plastic |
| READER-PRINTER (If applicable) | |
| PRINT SIZE | |
| PRINT COST | |
ELECTRO-OPTICAL MECHANISMS, INC. Model E417
MANUFACTURER/DISTRIBUTOR
Electro-Optical Mechanisms, Inc.

ADDRESS
2865 Metropolitan Place
Pomona, California 91767

MODEL
E417

WEIGHT AND DIMENSIONS
35 lbs.
21" H; 15" W, 26" D

LENSES AVAILABLE
24X or 48X

OTHER FEATURES
Variable Light Control
Automatic Opening Glass Plate

FICHE SIZES ACCEPTED
105mm x 148mm

ACCESSORIES
None

SCREEN SIZE
14" x 11"

WARRANTY PERIOD
180 Days
(Expendables not Included)

SCREEN COLOR
Gray

LIST PRICE
Not Available

SCREEN TYPE
Nonglare, Rear Projection

GSA SCHEDULE
N/A

POSITIONING CONTROLS
Fingertip Guided Indexing
With X-Y Indicator

READER-PRINTER (If applicable)

OPTICAL SYSTEM
High Resolution
Easy Focus

PROCESS

RATED LAMP LIFE
500 Hours

PRINT SIZE

POWER REQUIREMENT
175 Watts (Max.)
115/230 VAC 50/60 Hz

PRINT COST

CONSTRUCTION MATERIAL
Metal Housing
MANUFACTURER/DISTRIBUTOR
Electro-Optical Mechanisms, Inc.

ADDRESS
2865 Metropolitan Place
Pomona, California 91767

MODEL
M16 Viewer/Printer

WEIGHT AND DIMENSIONS
120 lbs.
21" H, 31" W, 27" D

OTHER FEATURES
Modularly Separable
Variable Light Control
Automatic Opening Glass Flats

ACCESSORIES
None

SCREEN SIZE
11" x 11"

WARRANTY PERIOD
180 Days
(Expendables not included)

LIST PRICE
Not Available

GSA SCHEDULE
N/A

OPTICAL SYSTEM
High Resolution
Easy Focus

READER-PRINTER (If applicable)

PRINT SPEED
8 Seconds

POWER REQUIREMENT
800 Watts
115/230 VAC 50/60 Hz

CONSTRUCTION MATERIAL
Metal Housing
EXAC-TICS CORPORATION Model HV 102 (Hand Viewer)
MODEL
HV 101 (Hand Viewer)

LENSES AVAILABLE
5X, 10X, or 13X

FICHE SIZES ACCEPTED
105mm x 148mm or Aperture Cards

SCREEN SIZE
N/A

SCREEN COLOR
N/A

SCREEN TYPE
N/A

POSITIONING CONTROLS
N/A

OPTICAL SYSTEM
Color Corrected Coated Glass Lenses

RATED LAMP LIFE
30 Hours

POWER REQUIREMENT
3 "C" Size Batteries or Optional
AC/DC Converter

CONSTRUCTION MATERIAL
ABS Plastic

WEIGHT AND DIMENSIONS
16 ozs.
8" H, 1 3/4" W, 1 1/2" D

OTHER FEATURES
Internal Light Source, Interchangeable Lenses

ACCESSORIES
AC/DC Converter

WARRANTY PERIOD
90 Days

LIST PRICE
$80.00
Quantity Discounts Available

GSA SCHEDULE
Pending

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
GAF Corporation

ADDRESS
140 West 51st Street
New York, New York 10020

MODEL
7507

WEIGHT AND DIMENSIONS
18 lbs.
14 1/2" H, 15 3/4" W, 14" D

OTHER FEATURES
Noiseless Convection Cooling
Extended Hood

ACCESSORIES
12 Volt Auto Adaptor
Various Size Carriers (Option)

WARRANTY PERIOD
6 Months

LIST PRICE
$125.00

SCREEN TYPE
Rear Projection

GSA SCHEDULE
N/A

POSITIONING CONTROLS
Fingertip Selector
X-Y Index

READER-PRINTER (If applicable)

OPTICAL SYSTEM
Floating Lens

PROCESS

RATED LAMP LIFE
Not Available

PRINT SPEED

CONSTRUCTION MATERIAL
Steel and Aluminum

POWER REQUIREMENT
120 VAC 60 Hz 45 Watts
12-Volt System (Optional)

PRINT SIZE

PRINT COST

LENSES AVAILABLE
16X, 24X, 32X, 40X or 48X

FICHE SIZES ACCEPTED
Dual 505mm x 148mm

SCREEN SIZE
8 1/2" x 5 1/2"

SCREEN COLOR
Neutral

SCREEN TYPE
Rear Projection

POWER REQUIREMENT
120 VAC 60 Hz 45 Watts
12-Volt System (Optional)

CONSTRUCTION MATERIAL
Steel and Aluminum

WEIGHT AND DIMENSIONS
18 lbs.
14 1/2" H, 15 3/4" W, 14" D

OTHER FEATURES
Noiseless Convection Cooling
Extended Hood

ACCESSORIES
12 Volt Auto Adaptor
Various Size Carriers (Option)

WARRANTY PERIOD
6 Months

LIST PRICE
$125.00

SCREEN TYPE
Rear Projection

GSA SCHEDULE
N/A

POSITIONING CONTROLS
Fingertip Selector
X-Y Index

READER-PRINTER (If applicable)

OPTICAL SYSTEM
Floating Lens

RATED LAMP LIFE
Not Available

POWER REQUIREMENT
120 VAC 60 Hz 45 Watts
12-Volt System (Optional)

CONSTRUCTION MATERIAL
Steel and Aluminum
GAF CORPORATION Model 7515 Portable
MANUFACTURER/DISTRIBUTOR
GAF Corporation

ADDRESS
140 West 51st Street
New York, New York 10020

MODEL
7515 Portable

WEIGHT AND DIMENSIONS
5 lbs.
11" H, 10 1/2" W, 5 3/4" D

LENSES AVAILABLE
20X or 24X

OTHER FEATURES
Convenient Lap Design
Hand

FICHE SIZES ACCEPTED
105mm x 148mm

ACCESSORIES
Battery Pack
12-Volt DC Auto Cord

SCREEN SIZE
7 1/4" x 10"

WARRANTY PERIOD
6 Months

SCREEN COLOR
Neutral Gray

LIST PRICE
$129.00

SCREEN TYPE
Nonglare, Rear Projection

GSA SCHEDULE
$110.50

POSITIONING CONTROLS
Dials for Horizontal and Vertical Movement

READER-PRINTER (If applicable)

OPTICAL SYSTEM
12-Volt Lamp

PROCESS

PRINT SIZE

POWER REQUIREMENT
115 VAC 50/60 Hz or
240 VAC 50 Hz

PRINT COST

CONSTRUCTION MATERIAL
High-Impact Plastic
**MANUFACTURER/DISTRIBUTOR**
GAF Corporation

**ADDRESS**
140 West 51st Street
New York, New York 10020

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WEIGHT AND DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7500 A</td>
<td>25 1/2 lbs.</td>
</tr>
<tr>
<td></td>
<td>18 1/2&quot; H, 9 1/2&quot; W, 16&quot; D</td>
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</table>

<table>
<thead>
<tr>
<th>LENSES AVAILABLE</th>
<th>OTHER FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>18X, 24X or 32X</td>
<td>Constant Focus</td>
</tr>
<tr>
<td></td>
<td>Dual Lamp Intensity</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FICHE SIZES ACCEPTED</th>
<th>ACCESSORIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 4&quot; x 7 3/8&quot;</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SCREEN SIZE</th>
<th>WARRANTY PERIOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 1/2&quot; x 11&quot;</td>
<td>6 Months</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SCREEN COLOR</th>
<th>LIST PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue, Green, or Gray</td>
<td>$159.00</td>
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</table>

<table>
<thead>
<tr>
<th>SCREEN TYPE</th>
<th>GSA SCHEDULE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonglare, Rear Projection</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POSITIONING CONTROLS</th>
<th>READER-PRINTER (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Y Index</td>
<td></td>
</tr>
<tr>
<td>Fingertip Frame Selector</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OPTICAL SYSTEM</th>
<th>PROCESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating Lens</td>
<td>PRINT SPEED</td>
</tr>
<tr>
<td>150 Watt Quartz Halogen Lamp</td>
<td>PRINT SIZE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RATED LAMP LIFE</th>
<th>PRINT COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 Hours</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POWER REQUIREMENT</th>
<th>CONSTRUCTION MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>115 VAC 50/60 Hz 150 Watts</td>
<td>Steel and Aluminum</td>
</tr>
</tbody>
</table>

53-
GAF CORPORATION Model 7504
MANUFACTURER/DISTRIBUTOR
GAF Corporation

ADDRESS.
140 West 51st Street
New York, New York 10020

MODEL
7504

LENSES AVAILABLE
18X, 24X, 32X, or 40X
(3/4 Blowback)

FICHE SIZES ACCEPTED
4" x 6", 3 1/4" x 7 3/8"
(4" x 12" Carrier-Optional).

SCREEN SIZE
11" x 8 1/2"

SCREEN COLOR
Blue, Green, or Gray.

SCREEN TYPE
Nonglare, Rear Projection

POSITIONING CONTROLS
Fingertip Frame Selector
X-Y Index

OPTICAL SYSTEM
Floating Lens
Quartz Halogen Lamp

RATED LAMP LIFE
500 Hours

POWER REQUIREMENT
115 VAC 50/60 Hz 150 Watts

CONSTRUCTION MATERIAL
Steel and Aluminum

WEIGHT AND DIMENSIONS
25 1/2 lbs.
15" H, 12" W, 19" D

OTHER FEATURES
Constant Focus
Dual Lamp Intensity

ACCESSORIES
None

WARRANTY PERIOD
6 Months

LIST PRICE
$169.00

GSA SCHEDULE
N/A

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
<table>
<thead>
<tr>
<th>MANUFACTURER/DISTRIBUTOR</th>
<th>GAF Corporation</th>
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<tbody>
<tr>
<td>ADDRESS</td>
<td>140 West 51st Street, New York, New York 10020</td>
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<table>
<thead>
<tr>
<th>MODEL</th>
<th>7524 Dual Magnification Reader</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEIGHT AND DIMENSIONS</td>
<td>27 lbs. 15&quot; H, 12&quot; W, 19&quot; D</td>
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</table>

<table>
<thead>
<tr>
<th>LENSES AVAILABLE</th>
<th>18x and 32x</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTHER FEATURES</td>
<td>High-Low Lamp Switch</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FICHE SIZES ACCEPTED</th>
<th>Up to 4&quot; x 7 3/8&quot;</th>
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</thead>
<tbody>
<tr>
<td>ACCESSORIES</td>
<td>Turntable, Dust Cover, Screen Hood</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SCREEN SIZE</th>
<th>11&quot; x 8 1/2&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCREEN COLOR</td>
<td>Blue, Gray or Green</td>
</tr>
<tr>
<td>WARRANTY PERIOD</td>
<td>6 Months</td>
</tr>
<tr>
<td>LIST PRICE</td>
<td>$265.00</td>
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<tr>
<td>GSA SCHEDULE</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SCREEN TYPE</th>
<th>Nonglare, Rear Projection</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSITIONING CONTROLS</td>
<td>Fingertip Selector, X-Y Index</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OPTICAL SYSTEM</th>
<th>Quartz Halogen Lamp, Floating Lens</th>
</tr>
</thead>
<tbody>
<tr>
<td>RATED LAMP LIFE</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POWER REQUIREMENT</th>
<th>115 VAC 50/60 Hz, 150 Watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRINT SIZE</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>CONSTRUCTION MATERIAL</th>
<th>Steel and Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRINT COST</td>
<td></td>
</tr>
</tbody>
</table>
MANUFACTURER/DISTRIBUTOR
GAF Corporation

ADDRESS
140 West 51st Street
New York, New York 10020

MODEL
7511

LENSES AVAILABLE
24X, 32X, 42X, 48X or 50X

FICHE SIZES ACCEPTED
Up to 4" x 7 3/8".
(4" x 12" Carrier-Optional)

SCREEN SIZE
15 1/2" x 11 1/2"

SCREEN COLOR
Blue, Green, or Gray

SCREEN TYPE
Nonglare, Rear Projection

POSITIONING CONTROLS
Fingertip Frame Selector
X-Y Index

OPTICAL SYSTEM
Floating Lens
150 Watt Quartz Halogen Lamp

RATED LAMP LIFE
500 Hours

POWER REQUIREMENT
115 VAC 50/60 Hz 150 Watts

CONSTRUCTION MATERIAL
Steel and Aluminum

WEIGHT AND DIMENSIONS
32 lbs.
20" H, 16 1/2" W, 25" D

OTHER FEATURES
Dual Lamp Intensity
Constant Focus

ACCESSORIES
Turntable
Dust Cover

WARRANTY PERIOD
6 Months

LIST PRICE
$275.00

GSA SCHEDULE
$231.00

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
GAF Corporation

ADDRESS
140 West 51st Street
New York, New York 10020

MODEL
9000 Reader-Printer

WEIGHT AND DIMENSIONS
70 lbs.
23" H, 15" W, 28" D

LENSES AVAILABLE
18X, 24X, 32X, 40X or 48X

OTHER FEATURES
High-Low Lamp Switch
Polarity Switch for Positive and Negative Films

SCREEN SIZE
11" x 11"

ACCESSORIES
4" x 12" Oversize Carrier (Option)
4" x 7 3/8" Carrier (Option)

FICHE SIZES ACCEPTED
105mm x 148mm

WARRANTY PERIOD
6 Months

SCREEN COLOR
Blue, Gray, or Green

LIST PRICE
$985.00

POSITIONING CONTROLS
Fingertip Selector
X-Y Index

GSA SCHEDULE
N/A

OPTICAL SYSTEM
Floating Lens for Constant Focus

READER-PRINTER (If applicable)

RATED LAMP LIFE
Not Available

PROCESS
Electrostatic

CONSTRUCTION MATERIAL
Steel and Aluminum

PRINT SPEED
7.5 Seconds

PRINT SIZE
8 1/2" x 11"

PRINT COST
Not Available
MANUFACTURER/DISTRIBUTOR
Karl Heitz, Inc.

ADDRESS
979 Third Avenue
New York, New York 10022

MODEL
Optico L, 3.

WEIGHT AND DIMENSIONS
46 lbs.
21" H, 17" W, 31" D

OTHER FEATURES
Wall Projection Capability
Variable Light Control
Accepts Roll Film

ACCESSORIES
Fiche Frame

WARRANTY PERIOD
Not Available

LIST PRICE
$699 (Fiche Frame $70 Extra)

SCREEN SIZE
111/2" x 14"

LIST PRICE
Not Available

GSA SCHEDULE
N/A

READER-PRINTER (If applicable)

POWER REQUIREMENT
220/110 VAC

PRINT SIZE

PRINT COST

CONSTRUCTION MATERIAL
Metal

SCREEN COLOR
Neutral

SCREEN TYPE
"Marata" Rear Projection

POSITIONING CONTROLS
Manual

OPTICAL SYSTEM
Low Voltage Lamp

RATED LAMP LIFE
Not Available

PRINT SPEED

LENSES AVAILABLE
8%, 10%, or 14%

FICHE SIZES ACCEPTED
2 1/8" x 4 7/8"

SCREEN TYPE
"Marata" Rear Projection

POSITIONING CONTROLS
Manual

OPTICAL SYSTEM
Low Voltage Lamp

RATED LAMP LIFE
Not Available

POWER REQUIREMENT
220/110 VAC

CONSTRUCTION MATERIAL
Metal

SCREEN COLOR
Neutral

SCREEN TYPE
"Marata" Rear Projection

POSITIONING CONTROLS
Manual

OPTICAL SYSTEM
Low Voltage Lamp

RATED LAMP LIFE
Not Available

POWER REQUIREMENT
220/110 VAC

CONSTRUCTION MATERIAL
Metal
<table>
<thead>
<tr>
<th>Category</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Microbook 710 Portareader</td>
</tr>
<tr>
<td>Lenses Available</td>
<td>75%</td>
</tr>
<tr>
<td>Fiche Sizes Accepted</td>
<td>3&quot; x 5&quot;</td>
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<tr>
<td>Screen Size</td>
<td>7 1/8&quot; x 10&quot;</td>
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<tr>
<td>Screen Color</td>
<td>Gray</td>
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<tr>
<td>Screen Type</td>
<td>Condirectional, Rear Projection</td>
</tr>
<tr>
<td>Positioning Controls</td>
<td>Horizontal and Vertical Knobs</td>
</tr>
<tr>
<td>Optical System</td>
<td>Constant Focus Lens</td>
</tr>
<tr>
<td>Rated Lamp Life</td>
<td>150 Hours</td>
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<tr>
<td>Power Requirement</td>
<td>120 VAC·50 Watts</td>
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<td>Construction Material</td>
<td>High-Impact Plastic</td>
</tr>
<tr>
<td>Weight and Dimensions</td>
<td>5 lbs.</td>
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<tr>
<td></td>
<td>11 1/4&quot; H, 11 3/4&quot; W, 6 1/4&quot; P</td>
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<tr>
<td>Other Features</td>
<td>Image Rotation Case, Case Design,</td>
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<tr>
<td></td>
<td>Recessed Cord Wrap, Fiche,</td>
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<td>Storage Chamber</td>
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<tr>
<td>Accessories</td>
<td>None</td>
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<tr>
<td>Warranty Period</td>
<td>90 Days</td>
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<td>List Price</td>
<td>$165.00</td>
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<td>GSA Schedule</td>
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<tr>
<td>Reader-Printer (If applicable)</td>
<td>Process</td>
</tr>
<tr>
<td>Print Speed</td>
<td>Print Size</td>
</tr>
<tr>
<td>Print Cost</td>
<td>Print Size</td>
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</tbody>
</table>
LIBRARY RESOURCES, INC. Microbook 912 Table Reader
MANUFACTURER/DISTRIBUTOR
Library Resources, Inc.

ADDRESS
301 East Erie Street
Chicago, Illinois 60611

MODEL
Microbook 912 Table Reader

WEIGHT AND DIMENSIONS
52 lbs.
17 1/4" H, 21" W, 16" D

OTHER FEATURES
Adjustable Screen Angle
Mechanical Fiche Rotation
Light Intensity Control

ACCESSORIES
None

FICHE SIZES ACCEPTED
3" x 5"

WARRANTY PERIOD
1 Year

SCREEN SIZE
8.5" x 12"

LIST PRICE
$450.00

SCREEN COLOR
Gray

GSA SCHEDULE
N/A

SCREEN TYPE
Nondirectional, Rear Projection

READER-PRINTER (If applicable)

POSITIONING CONTROLS
Mechanically Coupled
Horizontal and Vertical Dials

PROCESS

OPTICAL SYSTEM
Constant Focus

PRINT SPEED

RATED LAMP LIFE
250 Hours

PRINT SIZE

POWER REQUIREMENT
120 VAC 50/60 Hz 120 Watts

PRINT COST

CONSTRUCTION MATERIAL
High-Impact Plastic Case
MANUFACTURER/DISTRIBUTOR
Netagraphic Systems

ADDRESS
168-5 Stillwell Avenue
New York, New York 10001

MODEL
VAR 221

LENSES AVAILABLE
10", 12", or 15"

FICHE SIZES ACCEPTED
Up to 6" x 6"

SCREEN SIZE
17" x 17"

SCREEN COLOR
Neutral

SCREEN TYPE
Rear Projection

POSITIONING CONTROLS
Manual Fiche Carrier
Motorized Cartridge Viewing

OPTICAL SYSTEM
200 Watt Quartz Halogen Lamp

RATED LAMP LIFE
300 Hours

POWER REQUIREMENT
110 VAC

CONSTRUCTION MATERIAL
Metal and Plastic

WEIGHT AND DIMENSIONS
40 lbs.
26 1/2" H, 21" W, 15 1/2" D

OTHER FEATURES
Accepts 34 Cartridges
Image Counter
Optical Image Rotation

ACCESSORIES
Interchangeable Lenses
Electronic Image Counter (Option)

WARRANTY PERIOD
1 Year (GSA)

LIST PRICE
$915.00

GSA SCHEDULE
$841.30 (24X Lens)
(Available from GG Company)

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MICRO INFORMATION SYSTEMS, INC. Model 201 Reader Printer
MANUFACTURER/DISTRIBUTOR
Micro Information Systems, Inc.

ADDRESS
467 Armour Circle, N.E.
Atlanta, Georgia 30324

MODEL
201 Reader-Printer
202 COM Reader-Printer

LENSES AVAILABLE
18x, 24x, 32x, 36x, 42x, or 48x

FICHE SIZES ACCEPTED
Up to 5" x 8"

SCREEN SIZE
12" x 12"

SCREEN COLOR
Blue

SCREEN TYPE
Nonglare, Rear Projection

POSITIONING CONTROLS
Manual Glass Flats

OPTICAL SYSTEM
300 Watt Lamp

RATED LAMP LIFE
300 Hours Average

POWER REQUIREMENT
105-120 VAC 60 Hz or
220-240 VAC 50 Hz

CONSTRUCTION MATERIAL
Metal

WEIGHT AND DIMENSIONS
120 lbs.
27" H, 18" W, 26" D

OTHER FEATURES
Interchangeable Lenses (Except 18x)
Automatic Paper Cutter

ACCESSORIES
Image Rotation (Except 18x)
Polarity Control, Multiple Copy Selector, Coin Acceptor or Changer

WARRANTY PERIOD
90 Days

LIST PRICE
Model 201: $695.00 - $745.00
Model 202: $795.00 - $850.00

GSA SCHEDULE
Yes

READER-PRINTER (If applicable)

PROCESS
Electrostatic

PRINT SPEED
6 per Minute

PRINT SIZE
Model 201: 8 1/2" x 11"
Model 202: 11" x 8.5/2"
MANUFACTURER/DISTRIBUTOR
Micro Information Systems, Inc.

ADDRESS
467 Armour Circle, N.E.
Atlanta, Georgia 30324

MODEL
'01 Reader Printer

LENSES AVAILABLE
75% or 150%
(Other on Request)

FICHE SIZES ACCEPTED
Up to 5" x 8"

SCREEN SIZE
12" x 12"

SCREEN COLOR
Blue

SCREEN TYPE
High Contrast Nonglare

POSITIONING CONTROLS
Front, Easy Access

OPTICAL SYSTEM
300 Watt Lamp

RATED LAMP LIFE
300 Hours Average

POWER REQUIREMENT
105-120 VAC 60 Hz or
220-240 VAC 50 Hz

CONSTRUCTION MATERIAL
Metal

WEIGHT AND DIMENSIONS
120 lbs.
27" H, 18" W, 26" D

OTHER FEATURES
Automatic Paper Cutter

ACCESSORIES
Polarity Control
Coin Acceptor or Changer

WARRANTY PERIOD
90 Days

LIST PRICE
$1,495.00 - $1,695.00

GSA SCHEDULE
No

READER-PRINTER (If applicable)

PROCESS
Electrostatic

PRINT SPEED
6 per Minute

PRINT SIZE
8 1/2" x 11"

PRINT COST
$.04
MICRO-SCAN SYSTEMS INC. Model P-50 Gypsy
MANUFACTURER/DISTRIBUTOR
Micro-File Systems Inc.

ADDRESS
151 Fallet Street
Boston, Massachusetts 02124

MODEL
p1-10/205

LENSES AVAILABLE
225 or 24X

FICHE SIZES ACCEPTED
1" x 1"

SCREEN SIZE
12" x 10" page

SCREEN COLOR
W/A

SCREEN TYPE
Opaque surface on Desk Top

POSITIONING CONTROLS
Manual Scanning

OPTICAL SYSTEM
4-Element Lens

RATED LAMP LIFE
900 Hours

POWER REQUIREMENT
110 VAC 60 Hz

CONSTRUCTION MATERIAL
High-Impact Plastic

WEIGHT AND DIMENSIONS
11 lbs.
Closed: 14 3/4" H, 12" W, 3 1/2" D
Open: 16 3/4" H, 12" W, 11"

OTHER FEATURES
Projects on Desk Top on Wall

ACCESSORIES
12-volt Attachment

WARRANTY PERIOD
6 Months

LIST PRICE
$59.95

GSA SCHEDULE
$56.00

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
Micro-Optics Systems Inc.

ADDRESS
151 Elliott Street
Shen, Massachusetts 01512

MODEL
11

LENS AVAILABLE
157, 194, 22", 25", or 30"

FICHE SIZES ACCEPTED
5" x 7" and Tab Card Size

SCREEN SIZE
x 1/2" x 11"

SCREEN COLOR
Neutral

SCREEN TYPE
Polacote, Non-glare
(Rear Protection)

POSITIONING CONTROLS
Single Snob Operation

OPTICAL SYSTEM
12-Volt Lamp
1-Element Lens

RATED LAMP LIFE
300 Hours

POWER REQUIREMENT
110 VAC 60 Hz

CONSTRUCTION MATERIAL
High-Impact Plastic

WEIGHT AND DIMENSIONS
15 lbs.
16" x 10" x 4.5"

OTHER FEATURES
Glimmer Lens for Instant Focus

ACCESSORIES
Roll Film Attachment (1-500 sheets) Carrying Handle (Kit)

WARRANTY PERIOD
6 Months

LIST PRICE
$129.00

GSA SCHEDULE
$121.00

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
Micro-Panel Systems, Inc.

ADDRESS
571 Hollet Street
Canton, Massachusetts 02021

MODEL
Model Model 1-100

WEIGHT AND DIMENSIONS
5 lbs.
11 3/4" x 10 1/2" x 3/4"

LENSES AVAILABLE
35, 45, 90, or 420

OTHER FEATURES
Portable, Portable, lap and desk

FICHE SIZES ACCEPTED
5" x 8" and 13" Ward Size

ACCESSORIES
Carrying Case
12-Volt Attachment

SCREEN SIZE
7 1/2" x 10"

WARRANTY PERIOD
6 Months

SCREEN COLOR
Neutral

LIST PRICE
$149.50

SCREEN TYPE
Backlit, Back-lit

GSA SCHEDULE
$140.50

POSITIONING CONTROLS
Horizontal and vertical

READER-PRINTER (If applicable)

OPTICAL SYSTEM
1:1, 1:1

PROCESS

RATED LAMP LIFE
900-1000 Hours

PRINT SPEED

POWER REQUIREMENT
110 VAC 60 Hz

PRINT SIZE

CONSTRUCTION MATERIAL
Die-impact Plastic

PRINT COST
MICRO-SCAN SYSTEMS INC. Model K-71D (Dual Lens)
MODEL
7-311 (Dual Lens)

LENSES AVAILABLE
117 x 22" (Standard)
117 x 19", 150 x 22", 117 x 24", 150 x 24", 22" x 35" (optional)

FICHE SIZES ACCEPTED
8" x 6" and Tab Card Size

SCREEN COLOR
Neutral

SCREEN SIZE
6 1/2" x 11"

SCREEN TYPE
Polacoat, Nonglare (Rear Projection)

POSITIONING CONTROLS
Single Knob Operation

OPTICAL SYSTEM
12-Volt Lamp
4-Element Lens

RATED LAMP LIFE
300 Hours

POWER REQUIREMENT
110 VAC 60 Hz

CONSTRUCTION MATERIAL
High-Impact Plastic

MANUFACTURER/DISTRIBUTOR
Micro-Scan Systems Inc.

ADDRESS
151 Hallet Street
Boston, Massachusetts 02124

WEIGHT AND DIMENSIONS
15 lbs.
20" W, 10" D, 17" H

OTHER FEATURES
Gliding Lens for Constant Focus

ACCESSORIES
Roll Film Attachment (Kit)
Carrying Handle (Kit)

WARRANTY PERIOD
6 Months

LIST PRICE
$175.00 - Standard Lenses
$185.00 - Selected Combinations

GSA SCHEDULE
$164.50

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
**MANUFACTURER/DISTRIBUTOR**
Microtech Press

**ADDRESS**
955 W. Colfax Avenue
Lakewood, Colorado 80210

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LA-100</th>
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<tr>
<td><strong>LENSES AVAILABLE</strong></td>
<td>7.5</td>
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</table>

| FICHE SIZES ACCEPTED | 105mm x 148mm, 105mm x 150mm, 105mm microaperture cards |

| SCREEN SIZE | 32" x 32" |

| SCREEN COLOR | Gray |

| SCREEN TYPE | Olex Opaque |

| POSITIONING CONTROLS | Manual, X-Y Scales |

| OPTICAL SYSTEM | Focal Plane Focusing: Quartz Halogen 45% |

| RATED LAMP LIFE | 900 hours |

| POWER REQUIREMENT | 12 VAC, 7.7 Amp |

| CONSTRUCTION MATERIAL | Plastic |

| WEIGHT AND DIMENSIONS | 5 lbs. 6 ozs. | 11" H, 30" W, 9" D |

| OTHER FEATURES | Vertical write kit, 100% enlargement |

| ACCESSORIES | Power Converter 120-220 VAC to 12 VAC, Rear Projector Screen Assy., 105mm Fiche Holder |

| WARRANTY PERIOD | 6 Months |

| LIST PRICE | $62.00 - $175.00 (Quantity) |

| GSA SCHEDULE | No |

| READER-PRINTER | (If applicable) |

| PROCESS | |

| PRINT SPEED | |

| PRINT SIZE | |

| PRINT COST | |
MICROVISION INC. Model R24-48
MODEL
Microvision R24-48

LENSES AVAILABLE
Views up to 48X

FICHE SIZES ACCEPTED
105mm x 148mm

SCREEN SIZE
25mm x 19mm Viewing Window

SCREEN COLOR
N/A

SCREEN TYPE
N/A

POSITIONING CONTROLS
None

OPTICAL SYSTEM
Virtual Image Glass Optics
2.5 Volt Lamp

RATED LAMP LIFE
15 Hours

POWER REQUIREMENT
2 Standard C Cells

CONSTRUCTION MATERIAL
ABS Plastic

WEIGHT AND DIMENSIONS
12 ozs. (with batteries)
5" H, 1 1/2" W, 2 3/4" D

OTHER FEATURES
Row and Column Index
Vinyl Carrying Case
Constant Focus

ACCESSORIES
110 VAC Plug Transformer
Automobile Cigar Lighter Adaptor

WARRANTY PERIOD
90 Days

LIST PRICE
$79.50

GSA SCHEDULE
N/A

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MODEL
"Executive III" Reader/Printer

LENSES AVAILABLE
15X, 20X, or 24X

FICHE SIZES ACCEPTED
Up to 4" x 6"

SCREEN SIZE
12" x 12"

SCREEN COLOR
White

SCREEN TYPE
Noniglare, Rear Projection

POSITIONING CONTROLS
Index Pointer
Hand Operated Film Holder

OPTICAL SYSTEM
12.5 Volt Lamp

RATED LAMP LIFE
200 Hours

POWER REQUIREMENT
105-125 VAC 60 Hz

CONSTRUCTION MATERIAL
High-Impact Polystyrene Cabinet
Steel Frame

WEIGHT AND DIMENSIONS
50 lbs.
24 1/2" H, 18 1/4" W, 25 1/2" D

OTHER FEATURES
Push-Button Print Operation

ACCESSORIES
Roll Film Attachment

WARRANTY PERIOD
1 Year (Glass Items 90 Days)

LIST PRICE
$455.00 (Suggested)

GSA SCHEDULE
$427.70

READER-PRINTER (If applicable)

PROCESS
Dry-Silver

PRINT SPEED
30 Seconds

PRINT SIZE
8 1/2" x 11"

PRINT COST
Dependent on Quantity
3M COMPANY "Executive IV" Reader/Printer
MANUFACTURER/DISTRIBUTOR
3M Company

ADDRESS
3M Center
St. Paul, Minnesota 55101

MODEL
"Executive IV" Reader/Printer

LENSES AVAILABLE
20X, 24X, or 32X

FICHE SIZES ACCEPTED
Up to 4" x 8'

SCREEN SIZE
14" x 12"

SCREEN COLOR
Blue

SCREEN TYPE
Nonglare, Rear Projection

POSITIONING CONTROLS
Index Pointer
Hand Operated Film Holder

OPTICAL SYSTEM
17.5 Volt Lamp (75 Watt)

RATED LAMP LIFE
250 Hours

POWER REQUIREMENT
105-125 VAC 60 Hz

CONSTRUCTION MATERIAL
High-Impact Polystyrene Cabinet
Steel Frame

WEIGHT AND DIMENSIONS
150 lbs.
24 1/2" H, 18 1/4" W, 25 1/2" D

OTHER FEATURES
Pushbutton Print Operation

ACCESSORIES
Roll Film Attachment

WARRANTY PERIOD
1 Year (Glass Items 90 Days)

LIST PRICE
$680.00 (Suggested)

GSA SCHEDULE
$639.20

READER-PRINTER (If applicable)

PROCESS
Dry-Silver

PRINT SPEED
30 Seconds

PRINT SIZE
8 1/2" x 11"

PRINT COST
Dependent on Quantity
MANUFACTURER/DISTRIBUTOR
3M Company

ADDRESS
3M Center
St. Paul, Minnesota 55101

MODEL
"Miniscan" Viewer/Printer

LENSES AVAILABLE
48X (Viewing)
36X (Printing)

FICHE SIZES ACCEPTED
105mm x 148mm

SCREEN SIZE
1¼" x 11"

SCREEN COLOR
Gray (Neutral)

SCREEN TYPE
Nonglare Acrylic

POSITIONING CONTROLS
Hand Operated Film Holder with Knob Controls

OPTICAL SYSTEM
109 Watt Lamp (at 17.2 Volts)

RATED LAMP LIFE
500 Hours

POWER REQUIREMENT
115 VAC 10 Amps

CONSTRUCTION MATERIAL
Steel Cabinet
Plastic and Aluminum

WEIGHT AND DIMENSIONS
104 lbs.
24 1/2" H, 21 1/2" W, 22 1/2" D

OTHER FEATURES

ACCESSORIES
None

WARRANTY PERIOD
1 Year (Glass Items 90 Days)

LIST PRICE
Not Available

GSA SCHEDULE
N/A

READER-PRINTER (If applicable)

PROCESS
Electroconductive

PRINT SPEED
13 Seconds

PRINT SIZE
8 1/2" x 11"

PRINT COST
Dependent on Quantity
3M COMPANY "400F" Reader/Printer
MANUFACTURER/DISTRIBUTOR
3M Company

ADDRESS
3M Center
St. Paul, Minnesota 55101

MODEL
"400F" Reader/Printer

LENSES AVAILABLE
6X, 8X, 10X, 12X, 14X, 15X, 18X, 20X,
23X, 25X, 29X, or 35X

FICHE SIZE: ACCEPTED
Up to 8" x 6"

SCREEN SIZE
10" x 11 1/2".

SCREEN COLOR
Blue, Green, or Neutral

SCREEN TYPE
Rear Projection

POSITIONING CONTROLS
Hand Operated Film Holder
Interchangeable Index Grids

OPTICAL SYSTEM
200 Watt Lamp
Variable Lamp Voltage (Exposure)

RATED LAMP LIFE
190 Hours

POWER REQUIREMENT
100-130 VAC .60 Hz

CONSTRUCTION MATERIAL
Steel and Aluminum

WEIGHT AND DIMENSIONS
120 lbs.
28 1/2" H, 17 1/2" W, 22 3/4" D

OTHER FEATURES
180° Mechanical Image Rotation

ACCESSORIES
Halft Sheet/Full Sheet Kit
Narrow Sheet Kit
Filter Assembly
Wide Screen Kit

WARRANTY PERIOD
1 Year (Glass Items 90 Days)

LIST PRICE
$1,375.00

GSA SCHEDULE
$1,292.50

READER-PRINTER (If applicable)

PROCESS
Electroconductive

PRINT SPEED
6 Seconds

PRINT SIZE
8 1/2" x 12 1/2"

PRINT COST
Dependent on Quantity
3M COMPANY "500P" Reader/Printer
MANUFACTURER/DISTRIBUTOR

ADDRESS
St. Paul, Minnesota 55101

MODEL
"500P" Reader/Printer

WEIGHT AND DIMENSIONS
136 lbs.
31 1/2" x 30 1/3" x 5 1/4"

LENSES AVAILABLE
8x, 10x, 12x, 15x, 18x, 20x, 23x, 25x, 30x, 35x

OTHER FEATURES
180° Mechanical Image Rotation

LENSES AVAILABLE
8x, 10x, 12x, 15x, 18x, 20x, 23x, 25x, 30x, 35x

FICHE SIZES ACCEPTED
Up to 6" x 6"  

ACCESSORIES
Half Sheet/Full Sheet Kit
Narrow Sheet Kit
Filter Assembly

SCREEN SIZE
16" x 18"

WARRANTY PERIOD
1 Year (Glass Item: 90 Days)

SCREEN COLOR
Blue, Green, or Neutral

LIST PRICE
$2,205.00

SCREEN TYPE
Rear Projection

GSA SCHEDULE
$2,076.00

POSITIONING CONTROLS
Index Grid Strips (Interchangeable)
Hand Operated Film Holder

READER-PRINTER

OPTICAL SYSTEM
200 Watt Lamp
Variable Lamp Voltage (Exposure)

PROCESS
Dry-Silver

POWER REQUIREMENT
100-130 VAC 60 Hz

PRINT SPEED
10 Seconds

CONSTRUCTION MATERIAL
Steel and Aluminum

PRINT SIZE
6 1/2" x 12 1/2"
NCR, SYSTEMMEDIA DIVISION Model 456-113 Hand Viewer
MODEL
56-113 Hand Viewer

LENSES AVAILABLE
13X

FICHE SIZES ACCEPTED
105mm x 148mm and 3 1/4" x 7 3/8"
(Tab Card Size)

SCREEN SIZE
N/A

SCREEN COLOR
N/A

SCREEN TYPE
N/A

POSITIONING CONTROLS
Manual Movement

OPTICAL SYSTEM
Graduated Focus Control

RATED LAMP LIFE
N/A

POWER REQUIREMENT
Batteries (For Micro-Opaques)

CONSTRUCTION MATERIAL
High-Impact ABS Plastic

WEIGHT AND DIMENSIONS
8 ozs.
5" H, 2" W, 1 7/8" D

OTHER FEATURES
Maintenance Free Views Micro-Opaques

ACCESSORIES
None

WARRANTY PERIOD
N/A

LIST PRICE
$35.00

GSA SCHEDULE
$31.50

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
NCR; SYSTEMEDIA DIVISION Model 456-200 COM Reader
MANUFACTURER/DISTRIBUTOR
W2, Systemasia Division

ADDRESS
1000 Fox Plaza (Suite 540)
3131 S. Dixie Avenue
Dayton, Ohio 45439

MODEL
456-200 - 12 Reader

WEIGHT AND DIMENSIONS
46 lbs.
21 1/2" H, 18" W, 12" D

LENSES AVAILABLE
1 1/4 x 1 1/2", 1 1/2 x 1 1/2", or 1 3/4 x 1 3/4"

FICHE SIZES ACCEPTED
1 1/4 x 1 1/2" and 3 1/4 x 2 1/4"

SCREEN SIZE
1 1/4 x 1 1/2" x 12 1/2"

SCREEN COLOR
Gray, Green, or Blue

SCREEN TYPE
Anti-glare, Rear Projection

POSITIONING CONTROLS
Microfiche Carrier Handle

OPTICAL SYSTEM
100W Quartz Halogen Lamp
Anastigmatic Lenses

RATED LAMP LIFE
350 Hours (High Intensity)
450 Hours (Low Intensity)

POWER REQUIREMENT
115 VAC 60 Hz UL Approved
(Also 220 VAC)

CONSTRUCTION MATERIAL
Steel Cabinet
Aluminum Fiche Carrier

OTHER FEATURES

ACCESSORIES
Double Fiche Carrier,
Framing Envelopes

WARRANTY PERIOD
90 Days

LIST PRICE
45-200 w/o lens - $159.00
45-200 w/200 lens - $203.00

GSA SCHEDULE
45-200 w/o lens - $154.00
45-200 w/200 lens - $200.00

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
NCR, Systemedia Division

ADDRESS
1000 Cox Plaza (Suite 540)
3131 S. Dixie Avenue
Dayton, Ohio 45439

MODEL
456-300 Portable Reader

LENSES AVAILABLE
18X, 24X, 30X, or 36X

FICHE SIZES ACCEPTED
105mm x 145mm and 3 1/4" x 7 3/4"
(Tab Card Size)

SCREEN SIZE
10.2" x 10.5"

SCREEN COLOR
Gray, Blue, or Green

SCREEN TYPE
Anti-glare, Rear Projection

POSITIONING CONTROLS
Carrier Handle

OPTICAL SYSTEM
Quartz Halogen Lamp
Constant Focus

RATED LAMP LIFE
250 Hours (High Intensity)
450 Hours (Low Intensity)

POWER REQUIREMENT
115 VAC 60 Hz UL Approved

CONSTRUCTION MATERIAL
High-Impact Plastic, Aluminum Fiche Carrier

WEIGHT AND DIMENSIONS
27 lbs.
23" H, 13" W, 9" D

OTHER FEATURES
Nationwide Service
Index Grids
Two Position Light Switch

ACCESSORIES
Interchangeable Lenses
12V DC Power Option

WARRANTY PERIOD
90 Days

LIST PRICE
$225.00

GSA SCHEDULE
$198.00

READER-PRINTER (If applicable)

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
XRC, Scientific Division

ADDRESS
1000 Fox Plaza (Suite 5.0)
4131 N. Dixie Avenue
Dayton, Ohio 45439

MODEL
357-900

LENS AVAILABLE
1%, 0.25, 0.2%, or 0.1%

FICHE SIZES ACCEPTED
106.5mm x 150mm - 3 1/4" x 7 1/8" (Tab Card Size)

SCREEN SIZE
15.5" x 15 5/8"

SCREEN COLOR
Green, Gray, or White

SCREEN TYPE
Anti-glare, Rear Projection

POSITIONING CONTROLS
Fingertip with X-Z Indexing

OPTICAL SYSTEM
Anastigmatic, Diamond-Ground Lenses

RATED LAMP LIFE
350 Hours (High Intensity)
450 Hours (Low Intensity)

POWER REQUIREMENT
115 VAC 60 Hz UL Approved

CONSTRUCTION MATERIAL
Steel Cabinet

WEIGHT AND DIMENSIONS
52 lbs.
33" x 23" x 26" W

OTHER FEATURES
Nationwide Service

ACCESSORIES
Dual Fiche Carrier

WARRANTY PERIOD
90 Days

LIST PRICE
$295.00

GSA SCHEDULE
$265.00

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
NORTHWEST MICROFILM, INC. Model NMI 90
MANUFACTURER/DISTRIBUTOR
Northwest Microfilm, Inc.

ADDRESS
15 North 8th Street
Minneapolis, Minnesota 55402

MODEL
NMI 90

LENSES AVAILABLE
24x, 42x, or 48x

FICHE SIZES ACCEPTED
Up to 4" x 7 3/8"

SCREEN SIZE
13" x 10 1/2"

SCREEN COLOR
Blue

SCREEN TYPE
Nonglare, Rear Projection

POSITIONING CONTROLS
Fingertip Controlled Glass Platen

OPTICAL SYSTEM
150W Quartz Halogen Lamp
Dichroic Heat Filter

RATED LAMP LIFE
200-800 Hours
( Depending on Light Intensity)

POWER REQUIREMENT
115 VAC 60 Hz

CONSTRUCTION MATERIAL
Aluminum and Extruded Plastic

WEIGHT AND DIMENSIONS
25 lbs.
19" H, 14 1/2" W, 17 1/2" D

OTHER FEATURES
Self Opening Carrier, Variable
Light Intensity, Interchangeable
Floating Lens

ACCESSORIES
Dual 4" x 6" Fiche Carrier

WARRANTY PERIOD
6 Months

LIST PRICE
$199.00 FOB (Available Dec 73)

GSA SCHEDULE
N/A

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
Oce' - Industries Inc.

ADDRESS
Repro Systems Division
6500 N. Lincoln Avenue
Chicago, Illinois 60645

MODEL
6650 Reader/Printer

LENSES AVAILABLE
18X, 24X, 32X, 36X, or 42X
(Operator interchangeable)

FICHE SIZES ACCEPTED
105mm x 148mm

SCREEN SIZE
12" x 12"

SCREEN COLOR
Green Tint

SCREEN TYPE
Nonglare, Rear Projection

POSITIONING CONTROLS
Manual Fingertip
X-Y Coordinate Grids

OPTICAL SYSTEM
"Floating" 6-Element Lenses
Quartz Halogen Lamp

RATED LAMP LIFE
200-500 Hours

POWER REQUIREMENT
115 VAC 60 Hz 8 Amps

CONSTRUCTION MATERIAL
Metal and Plastic

WEIGHT AND DIMENSIONS
120 lbs.
24" H, 19" W, 36" D

OTHER FEATURES
180\(^\circ\) Mechanical Image Rotation

ACCESSORIES
Stand, Polarity Control, Copy Counter

WARRANTY PERIOD
1 Year

LIST PRICE
$1,470.00 (FOB)

GSA SCHEDULE
$1,395.00

READER-PRINTER (If applicable)

PROCESS
Electrostatic

PRINT SPEED
1st Copy - 8.5 Seconds
Additional Copies - 4 Seconds

PRINT SIZE
8" x 8 1/2" or 8 1/2" x 11"

PRINT COST
$0.04 (8 1/2" x 11")
MANUFACTURER/DISTRIBUTOR
Quantor Corporation

ADDRESS
520 Logue Avenue
Mountain View, California 94040

MODEL
Quantor 305

WEIGHT AND DIMENSIONS
25 lbs.
17" H, 12" W, 18 1/2" D

LENSES AVAILABLE
16X or 32X

OTHER FEATURES
X-Y Index Plate

FICHE SIZES ACCEPTED
105mm x 148mm

ACCESSORIES
Dual 4" x 12" Fiche Carrier

SCREEN SIZE
11" x 8 1/2"

WARRANTY PERIOD
90 Days (Parts and Labor)

SCREEN COLOR
Blue or Green

LIST PRICE
$175.00

SCREEN TYPE
Nonglare, Rear Projection

GSA SCHEDULE
N/A

POSITIONING CONTROLS
Bar Fingertip Frame Selector

READER-PRINTER (If applicable)

OPTICAL SYSTEM
Constant Focus Floating Lens
Quartz Halogen Lamp

PROCESS

RATED LAMP LIFE
1000 Hours

PRINT SPEED

POWER REQUIREMENT
110-120 VAC 50/60 Hz, 100 Watts

PRINT SIZE

CONSTRUCTION MATERIAL
Steel and Aluminum

PRINT COST
MANUFACTURER/DISTRIBUTOR
Readex Microprint Corporation

ADDRESS
101 Fifth Avenue
New York, New York 10003

MODEL
Universal Micro-Viewer

WEIGHT AND DIMENSIONS
24 lbs.
22 3/4" H, 11 1/4" W, 20 1/8" D

OTHER FEATURES
Also Reads Micro-Opaques
360° Image Rotation

ACCESSORIES
None

WARRANTY PERIOD
1 Year (Parts)

LIST PRICE
$295.00

GSA SCHEDULE
N/A

READER-PRINTER
(If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST

LENSES AVAILABLE
23X

FICHE SIZES ACCEPTED
Up to 6" x 9"

SCREEN SIZE
9 13/16" x 12 3/5"

SCREEN COLOR
Light Green

SCREEN TYPE
Rear Projection

POSITIONING CONTROLS
Manual Glass Flats

OPTICAL SYSTEM
f/1.6 Lens
15% Lamp

RATED LAMP LIFE
500 Hours (Continuous)
100 Hours (On and Off)

POWER REQUIREMENT
115 VAC 60 Hz

CONSTRUCTION MATERIAL
Molded Thermoplastic
MODEL
Compact (3363)

LENSES AVAILABLE
18X/24X, Dual Lens (Standard)
32X or 42X (Optional)

FICHE SIZES ACCEPTED
105mm x 148mm

SCREEN SIZE
8" x 11"

SCREEN COLOR
Blue

SCREEN TYPE
Nonglare, Rear Projection

POSITIONING CONTROLS
None

OPTICAL SYSTEM
Constant Focus Floating Optical Lens
10W Quartz Halogen Lamp

RATED LAMP LIFE
300 Hours

POWER REQUIREMENT
110, 127, 220, 240 VAC or
6V DC using Standard "D" Batteries

CONSTRUCTION MATERIAL
High-Impact Plastic

WEIGHT AND DIMENSIONS
5 lbs. without "D" Batteries
8 lbs. with 6 "D" Batteries
Closed: 3" H, 9 1/2" W, 12 1/2" D
Open: 14" H, 9 1/2" W, 12 1/2" D

OTHER FEATURES
Converts to Projector, Built-In
Fiche Storage for 250 Fiche

ACCESSORIES
Fiche Carrier
Decora Cover/Carrying Case

WARRANTY PERIOD
1 Year

LIST-PRICE
$99.99

GSA SCHEDULE
$90.00

READER-PRINTER (if applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
Realist, Inc.
Microform Products Division
ADDRESS
465 W. 3rd Road
Kenosha, Wisconsin 53140

MODEL
- Antare I
- Antare II

LENS AVAILABLE
A: 10X - 13X  D: 12X - 25X  H: 20X - 60X
12X - 17X  H: 22X - 29X  25X - 125X
H: 22X - 29X  F: 26X - 76X

FICHE SIZES ACCEPTED
Up to 1" x 8"

SCREEN SIZE
- 4" x 9" x 12" (Vertical)
- 4" x 12" x 9" (Horizontal)

SCREEN COLOR
Gray or Blue

SCREEN TYPE
Monochrome, Rear Projection

POSITIONING CONTROLS
Stylus Pointer on Grip Bar
Automatic Opening Carrier

OPTICAL SYSTEM
Constant Focus Floating Lens

RATED LAMP LIFE
500 Hours

POWER REQUIREMENT
110/120 VAC 60 Hz
220/240 VAC 50 Hz

CONSTRUCTION MATERIAL
Steel and Aluminum

WEIGHT AND DIMENSIONS
25 lbs.
17" x 18" x 9" H

OTHER FEATURES
- Vari-poke increases capability
- 90" Drop-in interchangable lenses
- Automatic on/off switch, 11-15 volt
- ACCESSORIES
- Turntable, Stand, Dust Cover,
- Select-lens holder, Carrying Case,
- Light Shield, Extra Lenses,
- Extension Screen

WARRANTY PERIOD
1 Year

LIST PRICE
$160.00

GSA SCHEDULE
$159.00

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
REALIST, INC. Vantage XII
MANUFACTURER/DISTRIBUTOR
Realist, Inc.
Microform Products Division
ADDRESS
N93 W16288 Megal Drive
Menomonee Falls, Wisconsin 53051

MODEL
Vantage X-I and Vantage X-II

LENSES AVAILABLE
A: 12X - 15X  D: 23X - 29X  G: 45X - 56X
B: 15X - 20X  E: 26X - 33X  K: 115X - 140X
C: 20X - 25X  F: 33X - 42X

FICHE SIZES ACCEPTED
Up to 4" x 6"

SCREEN SIZE
VX-1 = 11" x 14" (Vertical)
VX-II = 14" x 11" (Horizontal)

SCREEN COLOR
Gray or Blue

SCREEN TYPE
Non-Flare, Rear Projection

POSITIONING CONTROLS
Stylus Pointer
Automatic Opening Fiche Carrier

OPTICAL SYSTEM
Constant-Focus Floating Lens
Quartz Halogen Lamp

RATED LAMP LIFE
500 Hours

POWER REQUIREMENT
110/120 VAC 60 Hz
220/240 VAC 50 Hz

CONSTRUCTION MATERIAL
Steel and Aluminum

WEIGHT AND DIMENSIONS
28 lbs.
23" H, 15" W, 12" D

OTHER FEATURES
Vari-Optic increases magnification 25%, Drop-In Interchangeable Lenses,
Automatic On-Off Switch, UL and CSA Listed

ACCESSORIES
Turntable, Stand, Dust Cover,
Select-Lens Holder, Carrying Case,
Extra Lenses

WARRANTY PERIOD
1 Year

LIST PRICE
$210.00

GSA SCHEDULE
$187.00

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
Realist, Inc.
Microform Products Division
ADDRESS
N93 W16288 Megal Drive
Menomonee Falls, Wisconsin 53051

MODEL
Vangard
3332 - Single Lens
3334 - Dual Lens
3335 - Tri Lens

LENSES AVAILABLE
3332 - 24X, 27X, 30X, 36X, 42X, 48X or 50X
3334 - 11.5X & 24X, 24X & 42X; or 24X & 48X
3335 - 11.5X & 24X & 42X, or 11.5X & 24X & 48X

FICHE SIZES ACCEPTED
Up to 6" x 8"

SCREEN SIZE
10" x 13"

SCREEN COLOR
Gray or Blue

SCREEN TYPE
Acrylic
Rear Projection

POSITIONING CONTROLS
X-Y Index
Self-Opening Carrier

OPTICAL SYSTEM
Floating Lenses
Quartz Halogen Lamp

RATED LAMP LIFE
175 Hours

POWER REQUIREMENT
110/120 VAC 60 Hz or
220/240VAC 50 Hz

CONSTRUCTION MATERIAL
Steel and Aluminum

WEIGHT AND DIMENSIONS
65 lbs.
24 1/2" H x 19 1/2" W, 21" D

OTHER FEATURES
Self Contained Multi-Lens System
High-Low Intensity Switch
UL and CSA Listed

ACCESSORIES
Dust Cover, Stand, Turntable, Quality Image Kit

WARRANTY PERIOD
1 Year

LIST PRICE
3332 - $299.00
3334 - $435.00
3335 - $480.00

GSA SCHEDULE
3332 - $255.00
3334 - $370.00
3335 - $408.00

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MODEL: Vista - COM
3340 - Single Lens
3342 - Dual Lens
3343 - Tri Lens

LENS AVAILABLE
3340 - 24X, 42X, or 48X
3342 - 11.5X & 24X, 24X & 42X, 24X & 48X, or
3343 - 11.5X, 24X, 42X, or 11.5X, 24X, 48X

FICHES SIZES ACCEPTED
Up to 6" x 8".

SCREEN SIZE
19" x 13"

SCREEN COLOR
Gray or Blue

SCREEN TYPE
Acrylic
Rear Projection

POSITIONING CONTROLS
Automatic Opening Fiche Carrier with
Stylus Pointer

OPTICAL SYSTEM
Floating Lens for Constant Focus
Quartz Halogen Lamp

RATED LAMP LIFE
175 Hours

POWER REQUIREMENT
110/120 VAC 60 Hz
220/240 VAC 50 Hz

CONSTRUCTION MATERIAL
Steel and Aluminum

WEIGHT AND DIMENSIONS
55 lb.
24" H, 19" W, 14 1/2" D

OTHER FEATURES
Built-in Dust Protector Index Panel, Hi-Low Intensity Switch,
UL and CSA Listed

ACCESSORIES
Stand, Turntable, Dust Cover,
Quality Image Kit

WARRANTY PERIOD
1 Year

LIST PRICE
3340 - $330.00
3342 - $465.00
3343 - $499.00

GSA SCHEDULE
3340 - $280.00
3342 - $395.00
3343 - $424.00

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MODEL: Vista-Zoom
3337 - Single Lens
3338 - Dual Lens
3339 - Tri Lens

LENSES AVAILABLE:
- 3337: 24x, 27x, 30x, 36x, 42x, or 50x
- 3338: 11.5x & 24x, 24x & 48x, or 27x & 50x
- 3339: 11.5x & 24x & 42x or 14x & 27x & 50x

FICHE SIZES ACCEPTED:
Up to 6" x 8"

SCREEN SIZE:
19" x 13"

SCREEN COLOR:
Gray or Blue

SCREEN TYPE:
Acrylic Rear Projection

POSITIONING CONTROLS:
X-Y Indexing with Pointer Automatic Opening Carrier

OPTICAL SYSTEM:
Constant Focus Floating Lens Quartz Halogen Lamp

RATED LAMP LIFE:
175 Hours

POWER REQUIREMENT:
110/120 VAC 60 Hz
220/240 VAC 50 Hz

CONSTRUCTION MATERIAL:
Steel and Aluminum

WEIGHT AND DIMENSIONS:
65 lbs.
22" H, 19" W, 14 1/2" D

OTHER FEATURES:
Zoom Screen Increases Magnification by 25%

ACCESSORIES:
Stand, Turntable, Dust Cover, Quality Image Kit

WARRANTY PERIOD:
1 Year

LIST PRICE:
- 3337: $449.00
- 3338: $555.00
- 3339: $599.00

GSA SCHEDULE:
- 3337: $382.00
- 3338: $472.00
- 3339: $510.00

READER-PRINTER (If applicable)

PROCESS:

PRINT SPEED:

PRINT SIZE:

PRINT COST:
SEACO COMPUTER-DISPLAY, INC. Model 210
**MANUFACTURER/DISTRIBUTOR**
SEACO Computer-Display, Inc.

**ADDRESS**
2800 West Kingsley Road
Garland, Texas 75041

**MODEL**
SEACO 210

**LENSES AVAILABLE**
18X, 21X, 32X, or 36X

**FICHE SIZES ACCEPTED**
Up to 105mm x 148mm

**SCREEN SIZE**
11" x 8 1/2" or
12" x 9 1/2".

**SCREEN COLOR**
Blue

**SCREEN TYPE**
Nonglare, Rear Projection

**POSITIONING CONTROLS**
Manual X-Y Movement with Locating Grid

**OPTICAL SYSTEM**
Glass 5-Element Floating Lens

**RATED LAMP LIFE**
500 Hours Minimum

**POWER REQUIREMENT**
117 VAC 60 Hz 1 1/2 Amp
220 VAC 50 Hz or 100 VAC 50-60 Hz

**CONSTRUCTION MATERIAL**
Noryl and Metal

**WEIGHT AND DIMENSIONS**
12 lbs.
17" H, 13" W, 9" D

**OTHER FEATURES**
Interchangeable Lenses

**ACCESSORIES**
Carrying Case
Hood
Dust Cover

**WARRANTY PERIOD**
90 Days

**LIST PRICE**
$169 - $175

**GSA SCHEDULE**
N/A

**READER/PRINTER** (if applicable)

**PROCESS**

**PRINT SPEED**

**PRINT SIZE**

**PRINT COST**

125
MANUFACTURER/DISTRIBUTOR
SEACO Computer-Display, Inc.

ADDRESS
2800 West Kingsley Road
Garland, Texas 75041

MODEL
SEACO 310 Reader/Printer

LENS AVAILABLE
18X or 32X

FICHE SIZES ACCEPTED
Up to 1/4" x 7 3/8"

SCREEN SIZE
11" x 8 1/2"

SCREEN COLOR
Gray

SCREEN TYPE
Nonglare, Rear Projection

POSITIONING CONTROLS
Manual X-Y with Locating Grid

OPTICAL SYSTEM
Glass 5-Element Floating Lens

RATED LAMP LIFE
500 Hours

POWER REQUIREMENT
117 VAC 60 Hz 3 Amp
220 VAC 50 Hz or 100 VAC 50-60 Hz

CONSTRUCTION MATERIAL
Noryl and Metal

WEIGHT AND DIMENSIONS
65 lbs.
20" H, 18" W, 18" D

OTHER FEATURES
Interchangeable lenses,
Built-in Swivel Base

ACCESSORIES
None

WARRANTY PERIOD
90 Days

LIST PRICE
$1495.00

GSA SCHEDULE
N/A

READER-PRINTER (If applicable)

PROCESS
Electrostatic

PRINT SPEED
8 Seconds

PRINT SIZE
8 1/2" x 11"

PRINT COST
4-5 Cents
MANUFACTURER/DISTRIBUTOR
Sperry Remington, Office Systems Division

ADDRESS
Box 2000
Blue Bell, Pennsylvania 19422

MODEL
F-50 (16x)  F-52 (32x)
F-51 (21x)  F-53 (36x)

LENSES AVAILABLE
Various (See Model)

FICHE SIZES ACCEPTED
105mm x 150mm

SCREEN SIZE
11" x 8 7/8"

SCREEN COLOR
Blue

SCREEN TYPE
Longlare, Rear Projection

POSITIONING CONTROLS
Fingertip with X-Y Coordinate Indexing

OPTICAL SYSTEM
150 Watt Quartz Halogen Lamp
Floating Lens

RATED LAMP LIFE
500 Hours

POWER REQUIREMENT
115 VAC 60 Hz

CONSTRUCTION MATERIAL
Plastic

WEIGHT AND DIMENSIONS
12 lbs.
16" H, 13" W, 9" D

OTHER FEATURES
Constant Focus

ACCESSORIES
Screen extension
Interchangeable lenses

WARRANTY PERIOD
90 Days

LIST PRICE
$185 - $190 (Depending on Magnification)

GSA SCHEDULE
$165 - $170

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
SPERRY REMINGTON Model F-450
MANUFACTURER/DISTRIBUTOR
Sperry Remington, Office Systems Division

ADDRESS
Box 1000
Blue Bell, Pennsylvania 19422

MODEL
F-450

LENSES AVAILABLE
18X or 24X

FICHE SIZES ACCEPTED
105mm x 148mm and Tab Card Size

SCREEN SIZE
14" x 11"

SCREEN COLOR
Blue

SCREEN TYPE
Rear Projection

POSITIONING CONTROLS
Fingertip

OPTICAL SYSTEM
Four-Position Variable Illumination

RATED LAMP LIFE
350 Hours

POWER REQUIREMENT
115 VAC 50-60'Hz 150 Watts

CONSTRUCTION MATERIAL
Metal

WEIGHT AND DIMENSIONS
35 lbs.
17 1/2" H, 16" W, 15" D

OTHER FEATURES
Auto-Opening Glass Flats

ACCESSORIES
-

WARRANTY PERIOD
6 Months

LIST PRICE
$279.00

GSA SCHEDULE
N/A

READER-PRINTER (If applicable)
-

PROCESS
-

PRINT SPEED
-

PRINT SIZE
-

PRINT COST
-
MANUFACTURER/DISTRIBUTOR
Perry Remington Office Systems Division

ADDRESS
Box 1000
Lehigh, Pennsylvania 19122

MODEL
752 and 754

WEIGHT AND DIMENSIONS
59 lbs.
24 1/2" H, 19 3/4" W, 20 7/8" D

LENSES AVAILABLE
2x or 4x

OTHER FEATURES
Index Pointer

FICHE SIZES ACCEPTED
Up to 6" x 8"

ACCESSORIES
--

SCREEN SIZE
1" x 1"

WARRANTY PERIOD
90 Days

SCREEN COLOR
Gray

LIST PRICE
$369.00

SCREEN TYPE
Rear Projection

GSA SCHEDULE
L/A

POSITIONING CONTROLS
One Frame Selector

READER-PRINTER (If applicable)

OPTICAL SYSTEM
Halogen Lamp with Cooling Fan

PROCESS

RATED LAMP LIFE
250 Hours

PRINT SPEED

POWER REQUIREMENT
110-120 VAC 60 Hz

PRINT SIZE

CONSTRUCTION MATERIAL
Steel

PRINT COST
MANUFACTURER/DISTRIBUTOR
Sperry Remington, Office Systems Division

ADDRESS
Box 1000
Blue Bell, Pennsylvania 19422

MODEL
READARD-F201

LENSES AVAILABLE
26X, 21X, 26X, 32X or 42X

FICHE SIZES ACCEPTED
105mm x 148mm (specially clipped)

SCREEN SIZE
18" x 12"

SCREEN COLOR
Gray

SCREEN TYPE
Rear Projection

POSITIONING CONTROLS
Push button

OPTICAL SYSTEM
Quartz Iodine Lamp
Infrared Filter

RATED LAMP LIFE
350 Hours

POWER REQUIREMENT
110 VAC 60 Hz

CONSTRUCTION MATERIAL
Steel and Plastic

WEIGHT AND DIMENSIONS
93 lbs.
19 3/8" H, 18 1/2" W, 25 1/2" D

OTHER FEATURES
Automatic Retrieval

ACCESSORIES
Computer Interface

WARRANTY PERIOD
6 Months

LIST PRICE
Not Available

GSA SCHEDULE
$1,322.50 (42X Extra)

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
SPERRY REMINGTON REMKARD-F201.1 (Reader Printer)
<table>
<thead>
<tr>
<th><strong>MANUFACTURER/DISTRIBUTOR</strong></th>
<th>Sperry Remington, Office Systems Division</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ADDRESS</strong></td>
<td>Box 1000</td>
</tr>
<tr>
<td></td>
<td>Blue Bell, Pennsylvania 19422</td>
</tr>
</tbody>
</table>

| **MODEL**                   | RFARD-F201.1 (Reader Printer)          |
|                            |                                        |
| **LENSES AVAILABLE**       | 20X, 24X, 26X, or 32X                  |
|                            |                                        |
| **FICHE SIZES ACCEPTED**   | 105mm x 148mm (specially clipped)      |
|                            |                                        |
| **SCREEN SIZE**            | 18" x 12"                              |
|                            |                                        |
| **SCREEN COLOR**           | Gray                                    |
|                            |                                        |
| **SCREEN TYPE**            | Rear Projection                         |
|                            |                                        |
| **POSITIONING CONTROLS**   | Push Button                             |
|                            |                                        |
| **OPTICAL SYSTEM**         | Quartz Iodine Lamp                      |
|                            | Infrared Filter                         |
|                            |                                        |
| **RATED LAMP LIFE**        | 350 Hours                               |
|                            |                                        |
| **POWER REQUIREMENT**      | 115 VAC 60 Hz                           |
|                            |                                        |
| **CONSTRUCTION MATERIAL**  | Steel                                   |
|                            |                                        |

| **WEIGHT AND DIMENSIONS**  | 348 lbs.                                 |
|                            | 30 1/2" H, 26" W, 31" D                |
|                            |                                        |
| **OTHER FEATURES**         | Automatic Retrieval                     |
|                            |                                        |
| **ACCESSORIES**            | Computer Interface                      |
|                            |                                        |
| **WARRANTY PERIOD**        | 90 Days                                  |
|                            |                                        |
| **LIST PRICE**             | Not Available                            |
|                            |                                        |
| **GSA SCHEDULE**           | N/A                                      |
|                            |                                        |
| **READER-PRINTER** (If applicable) |                                    |
|                            |                                        |
| **PROCESS**                | Electro Photographic                    |
|                            |                                        |
| **PRINT SPEED**            | 1st Print - 11 Seconds                  |
|                            | Additional Prints - 4 Seconds           |
|                            |                                        |
| **PRINT SIZE**             | 8 1/2" x 11" and 11" x 14"             |
|                            |                                        |
| **PRINT COST**             | $0.05 and $0.08                         |
STROMBERG-DATAGRAPHIX Model 1400
MANUFACTURER/DISTRIBUTOR:
Stromberg Datagraphix

ADDRESS
P. O. Box 2449
San Diego, California 92112

MODEL
1400 and 1401

LENSES AVAILABLE
24X, 42X, or 48X
(3/4 Blowback)

FICHE SIZES ACCEPTED
Model 1400: 105mm x 148mm
Model 1401: Up to 4" x 12

SCREEN SIZE
11 1/2" x 9"

SCREEN COLOR
Blue or Gray

SCREEN TYPE
Rear Projection, Nonglare

POSITIONING CONTROLS
Fingertip Handle

OPTICAL SYSTEM
Constant Focus
Floating Lens

RATED LAMP LIFE
300 Hours (Minimum)

POWER REQUIREMENT
100-120 VAC 50/60 Hz or
200-240 VAC 50/60 Hz

CONSTRUCTION MATERIAL
Plastic and Aluminum

WEIGHT AND DIMENSIONS
Model 1400: 20 lbs. 18" H,
15 1/2" W, 16" D
Model 1401: 30 lbs.
18" H, 29" W, 16" D

OTHER FEATURES
Ball Bearing Carrier
Heat Sink Design
UL Approved

ACCESSORIES
Extended Screen
Viewing Hood
Dust Cover

WARRANTY PERIOD
90 Days

LIST PRICE
Model 1400: $145.00
Model 1401: $161.00
(Rental Available)

GSA SCHEDULE
Model 1400: $136.30
Model 1401: N/A

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
STROMBERG DATAGRAPHIX Model 1451
MANUFACTURER/DISTRIBUTOR
Stromberg Datagraphix

ADDRESS
P. O. Box 2449
San Diego, California 92112

MODEL
1450 and 1451

WEIGHT AND DIMENSIONS
Model 1450: 30 lbs.
22" H, 18-1/2" W, 23" D
Model 1451: 39 lbs.
22" H, 29" W, 23" D

OTHER FEATURES
Ball Bearing Carrier
Heat Sink Design
UL Approved

ACCESSORIES
Interchangeable Lenses
Adjustable Legs
Dust Cover

WARRANTY PERIOD
90 Days

LIST PRICE
Model 1450: $245.00
Model 1451: $295.00
(Rental Available)

GSA SCHEDULE
Model 1450: 5230.30
Model 1451: N/A

READER-PRINTER (If applicable)

OPTICAL SYSTEM
Constant Focus Floating Lens
107% Blowback

POSITIONING CONTROLS
Fingertip Handle

RATED LAMP LIFE
250 Hours (Minimum)

POWER REQUIREMENT
110-120 VAC 50/60 Hz

CONSTRUCTION MATERIAL
Plastic and Aluminum
SYNER GRAPHICS Northstar 105.
MANUFACTURER/DISTRIBUTOR
Syner Graphics

ADDRESS
Transamerica Pyramid
P.O. Box 7958
San Francisco, California 94120

MODEL
Northstar 105

LENSES AVAILABLE
24x, 42x, or 48x
24x/42x or 24x/48x

FICHE SIZES ACCEPTED
105mm x 148mm

SCREEN SIZE
14" x 11"

SCREEN COLOR
Blue, Gray, or Green

SCREEN TYPE
Convex Rear Projection
Antiglare

POSITIONING CONTROLS
Fingertip Handle

OPTICAL SYSTEM
150 Watt Quartz Halogen Lamp
Heat Filter

RATED LAMP LIFE
100 Hours

POWER REQUIREMENT
117 VAC 50/60 Hz, 165 Watts or
240 VAC 50 Hz.

CONSTRUCTION MATERIAL
High-Impact Plastic

WEIGHT AND DIMENSIONS
20 lbs.
18" H, 17 1/2" W, 15" D

OTHER FEATURES
High-Low Lamp Intensity
Auto-Opening Carrier

ACCESSORIES
6" x 7 1/2" Carrier

WARRANTY PERIOD
1 Year (Except Lamp)

LIST PRICE
Single Lens: $275.00
Dual Lens: $325.00

GSA SCHEDULE
N/A

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
HANT CORPORATION

Ambient Hand Viewer

TAYLOR-MERCHANT CORPORATION

Ambient Hand Viewer
**MANUFACTURER/DISTRIBUTOR**  
Taylor-Merchant Corporation

**ADDRESS**  
25 West 45th Street  
New York, New York 10036

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TMC Ambient Hand Viewer</th>
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</table>
| WEIGHT AND DIMENSIONS | 6 ozs.  
6" H, 2" W, 1 1/4" D |
| LENSES AVAILABLE | 16X or 12X |
| FICHE SIZES AC | 105mm x 148mm |
| SCREEN SIZE | N/A |
| SCREEN COLOR | N/A |
| SCREEN TYPE | N/A |
| POSITIONING CONTROLS | Manual |
| OPTICAL SYSTEM | Doublet |
| RATED LAMP LIFE | N/A |
| POWER REQUIREMENT | N/A |
| CONSTRUCTION MATERIAL | High-Impact Plastic - Moulded and Aluminum |
| OTHER FEATURES | Pocket Size |
| ACCESSORIES | None |
| WARRANTY PERIOD | 1 Year |
| LIST PRICE | 16X - $21.95, 12X - $19.95 |
| GSA SCHEDULE | GS-00S-14665 |
| PRINT SIZE | |
| PRINT COST | |

**READER-PRINTER** (If applicable)

**PROCESS**

**PRINT SPEED**

**PRINT SIZE**

**PRINT COST**
TAYLOR-MERCHANT CORPORATION Battery Operated Hand Viewer
MANUFACTURER/DISTRIBUTOR
Taylor-Merchant Corporation

ADDRESS
25 West 45th Street
New York, New York 10036

MODEL
Th Battery Operated Hand Viewer

WEIGHT AND DIMENSIONS
8 ozs.
4 1/2" H, 2 1/2" W, 2" D

OTHER FEATURES
Pocket Size

ACCESSORIES
None

WARRANTY PERIOD
1 Year

LIST PRICE
16X - $25.95
12X - $23.95

GSA SCHEDULE
GS-00S-146-4

POSITIONING CONTROLS
Manual

READER-PRINTER (if applicable)

PROCESS

PRINT SPEED

PRINT SIZE

CONSTRUCTION MATERIAL
High-Impact Plastic and Aluminum

SCREEN SIZE
16X/A

SCREEN COLOR
16X/A

SCREEN TYPE
16X/A

POWER REQUIREMENT
Penlite Batteries

RATED LAMP LIFE
16X/A

OPTICAL SYSTEM
Doublet

LENGTH AVAILABLE
16X or 12X

FICHE SIZES ACCEPTED
5" x 6"

ACCESSORIES
None

CONSTRUCTION MATERIAL
High-Impact Plastic and Aluminum
TAYLOR-MERCHANT CORPORATION Model 300XF Micro Projector
MANUFACTURER/DISTRIBUTOR
Taylor-Merchant Corporation

ADDRESS
25 First 15th Street
New York, New York 10026

MODEL
ARTC-6 Micro Projector

WEIGHT AND DIMENSIONS
3 lbs.
6" H, 3" W, 8" D

OTHER FEATURES
Fan Cooled

FICHE SIZES ACCEPTED
105mm x 148mm

ACCESSORIES
Slide Adapter
Filmstrip Adapter
Case

SCREEN SIZE
Variable

WARRANTY PERIOD
3 Months

SCREEN COLOR
N/A

LIST PRICE
$77.50

SCREEN TYPE
N/A

GSA SCHEDULE
GS-00S-14665

POSITIONING CONTROLS
Manual, Coordinate Index Guide

READER-PRINTER (If applicable)

OPTICAL SYSTEM
Direct Projection

PROCESS

RATED LAMP LIFE
75 Hours

PRINT SPEED

POWER REQUIREMENT
110 Volts

PRINT SIZE

CONSTRUCTION MATERIAL
Diecast Aluminum

PRINT COST
MANUFACTURER/DISTRIBUTOR
Teledyne Post

ADDRESS
P.O. Box 803
Chicago, Illinois 60690

MODEL
2500

WEIGHT AND DIMENSIONS
42 lbs.
17 1/2" H, 14" W, 15" D

OTHER FEATURES
UL Approved

ACCESSORIES
Swivel Base

WARRANTY PERIOD
90 Days
Except Lamp and Glass Components

LIST PRICE
$249.00

GSA SCHEDULE
N/A

READER-PRINTER (if applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST

LENS AVAILABLE
18X, 21X, 24X or 30X

FICHE SIZES ACCEPTED
Up to 7.48" x 7.48"

SCREEN SIZE
14" x 11"

SCREEN COLOR
Gray, Green, or Blue

SCREEN TYPE
Plastic, Rear Projection

POSITIONING CONTROLS
Front Mounted

OPTICAL SYSTEM
Variable Light Control

RATED LAMP LIFE
900 Hours - Low
700 Hours - Medium
400 Hours - High

POWER REQUIREMENT
115 VAC  50/60 Hz

CONSTRUCTION MATERIAL
Metal
ing an example in which the axiom of choice does not hold.

but the other axiom of set theory do. Thus, to Cohen's great

result that it cannot be revised. Cohen also added the fact

that the continuum hypothesis cannot be proved or 

disproved. Thus two of the vexing

questions of the foundation have been solved within the

realm of axiomatic set theory.

In the nineteenth century a considerable amount of literature

concerning the paradoxes has appeared, and numerous

attempts to a solution have been offered. Despite the

investigations devoted to the paradoxes and the series of

one explanation which is universally accepted.

If the paradoxes disclosed in the last chapter are examined

carefully, it will be seen that most of them involve a set

of which is called the solution of the paradox. Both

Burali-Forti and Cantor have given an example of a

paradoxical set. Burali-Forti's, for example, is the set of

all ordinals that are less than some given ordinal. It is

clear that this set is not a member of itself, but its

member is a set of all ordinals less than itself.

Cantor's paradox is that of the set of all sets. If we take

the set of all sets, and then form the set of all sets

outside of it, we get a new set that contains the old set,

but is different from it.

This is a contradiction, and the Burali-Forti paradox is

resolved by the fact that there is no such set.

However, the Burali-Forti paradox is resolved by the

fact that there is no such set.
MANUFACTURER/DISTRIBUTOR
Visidyne

ADDRESS
19 Third Avenue
Northwest Industrial Park
Burlington, Massachusetts 01803

MODEL
Handbook

LENSES AVAILABLE
20X or 24X

FICHE SIZES AVAILABLE
105mm x 148mm

SCREEN SIZE
5 1/2" x 7 1/2"

SCREEN COLOR
Neutral

SCREEN TYPE
Nonglare, Rear Projection

POSITIONING CONTROLS
Manual Move Carrier
X-Y Index

OPTICAL SYSTEM
75% Blowback

RATED LAMP LIFE
Not Available

POWER REQUIREMENT
117 VAC
12 DC

CONSTRUCTION MATERIAL
Plastic

WEIGHT AND DIMENSIONS
2 1/2 lbs.
8" H, 7" W, 3 1/2" D

OTHER FEATURES

ACCESSORIES
Battery Pack
12-Volt

WARRANTY PERIOD
120 Days (Except Lamp)

LIST PRICE
$50.00 (Available 1974)

GSA SCHEDULE
N/A

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
Visidyne

ADDRESS
19 Third Avenue
Northwest Industrial Park
Burlington, Massachusetts 01803

MODEL I
Voyager I

LENSES AVAILABLE
20X or 24X
42X (Optional)

FICHE SIZES ACCEPTED
105mm x 148mm

SCREEN SIZE
7" x 9 1/2"

SCREEN COLOR
Neutral

SCREEN TYPE
Nonglare, Rear Projection

POSITIONING CONTROLS
Manual Move Carrier
X-Y Index

OPTICAL SYSTEM
36 Watt Lamp
Auto Focus System

RATED LAMP LIFE
Not Available

POWER REQUIREMENT
117 VAC 50/60 Hz

CONSTRUCTION MATERIAL
High-Impact Plastic

WEIGHT AND DIMENSIONS
5 lbs.  Y
10 1/2" H, 11" W, 4" D

OTHER FEATURES
Handle

ACCESSORIES
None

WARRANTY PERIOD
120 Days (Except Lamp)

LIST PRICE
$150.00

GSA SCHEDULE
N/A

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
Visidyne

ADDRESS
19 Third Avenue
Northwest Industrial Park
Burlington, Massachusetts 01803

MODEL
Specialyst

WEIGHT AND DIMENSIONS
17 lbs.
11" H, 18 1/2" W, 11 1/2" D

OTHER FEATURES
Lens Selector Switch

ACCESSORIES
None

WARRANTY PERIOD
120 Days (Except Lamp)

LIST PRICE
$300.00

GSA SCHEDULE
N/A

READER-PRINTER

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST

LENSES AVAILABLE
Dual 24X and 48X

FICHE SIZES ACCEPTED
105mm x 148mm

SCREEN SIZE
15 1/2" x 10"

SCREEN COLOR
Neutral

SCREEN TYPE
Rear Projection

POSITIONING CONTROLS
Easy Move Carrier
with X-Y Index

OPTICAL SYSTEM
Dual Optics

RATED LAMP LIFE
Not Available

POWER REQUIREMENT
120 VAC 60 Hz
220-240 VAC 50 Hz

CONSTRUCTION MATERIAL
High-Impact Plastic
MANUFACTURER/DISTRIBUTOR
WSI Micrographics

ADDRESS
Washington Scientific Industries, Inc.
Long Lake, Minnesota 55356

MODEL
INFORMANT Model IF

LENSES AVAILABLE
2½X or 32X

FICHE SIZES ACCEPTED
105mm x 148mm

SCREEN SIZE
9" x 11"

SCREEN COLOR
White

SCREEN TYPE
MAGNIRAMA Front Projection

POSITIONING CONTROLS
X-Y Indexing, Manual

OPTICAL SYSTEM
Heat Filtering Optics

RATED LAMP LIFE
450 Hours

POWER REQUIREMENT
117 VAC 50/60 Hz

CONSTRUCTION MATERIAL
High-Impact Plastic Case with Metal Chassis

WEIGHT AND DIMENSIONS
8 lbs:
Closed: 4 1/2" H, 11 1/4" W, 10" D
Open: 9 1/2" H, 11 1/4" W, 14" D

OTHER FEATURES
Portable with Handle
12V Auto Adaptor (Optional)

ACCESSORIES
12V Battery in Separate Case
12V Battery (Built-in)

WARRANTY PERIOD
90 Days

LIST PRICE
$149.00

GSA SCHEDULE
N/A

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST
MANUFACTURER/DISTRIBUTOR
WSI Micrographics

ADDRESS
Washington Scientific Industries, Inc.
Long Lake, Minnesota 55356

MODEL
MINI-CAT Model MC

LENSES AVAILABLE
24X, 42X and 48X

FICHE SIZES ACCEPTED
105mm x 148mm

SCREEN SIZE
1½" x 11"

SCREEN COLOR
White

SCREEN TYPE
MAGNIRAMA
Front Projection

POSITIONING-CONTROLS
X-Y Indexing, Manual

OPTICAL SYSTEM
Heat Filtering Optics

RATED LAMP LIFE
500 Hours High
1200 Hours Normal

POWER REQUIREMENT
117 VAC 50/60 Hz

CONSTRUCTION MATERIAL
High-Impact Plastic Case with Metal Chassis

WEIGHT AND DIMENSIONS
22 1/2 lbs.
23 1/2" H, 18" W, 17" D

OTHER FEATURES
Available with a Dual Lens System and Low Lamp Switch

ACCESSORIES
None

WARRANTY PERIOD
90 Days

LIST PRICE
Single Lens $199.00
Dual Lens $249.00

GSA SCHEDULE
Single Lens $169.15
Dual Lens $211.65

READER-PRINTER (If applicable)

PROCESS

PRINT SPEED

PRINT SIZE

PRINT COST