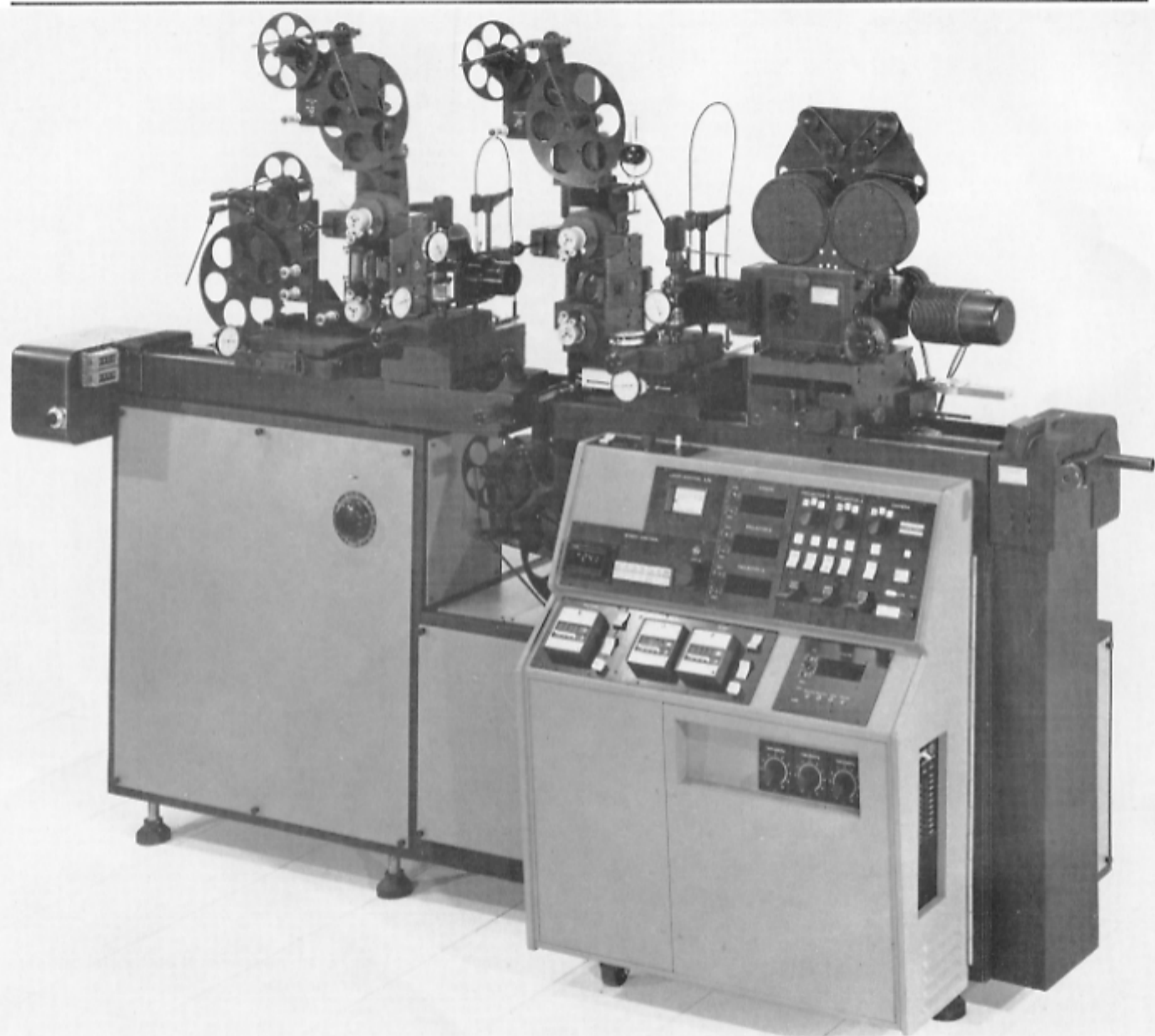


# **OXBERRY 1600**

## **SPECIAL EFFECTS STEP OPTICAL PRINTER**

Division of Richmark Camera Service Inc.  
180 Broad Street, Carlstadt, New Jersey 07072  
Phone: (201) 935-3000 Telex: 133509 Cable: Oxberry Carlstadt N.J.



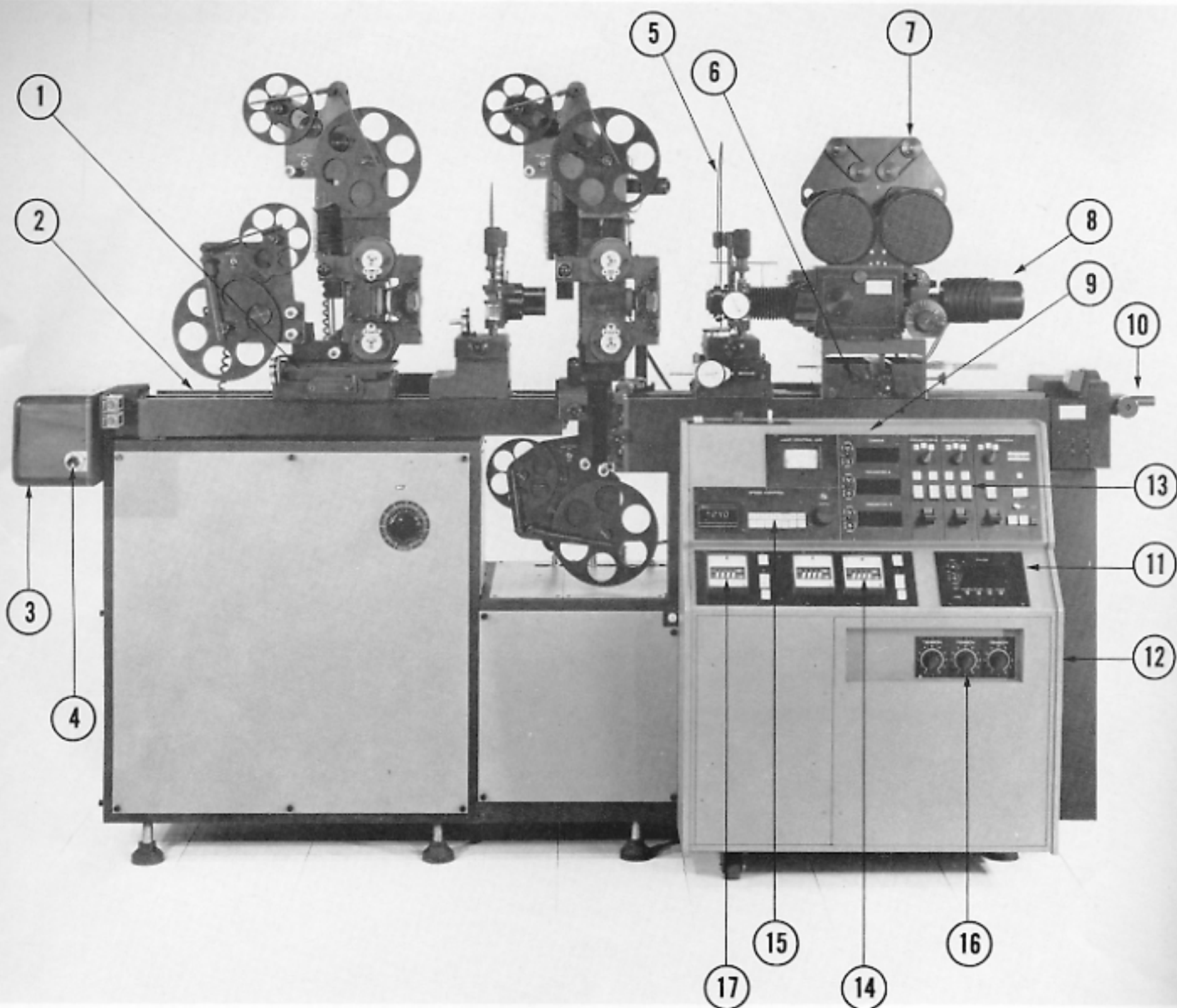
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**OXBERRY RESEARCH SETS THE PACE FOR  
THE PROFESSIONAL FILM INDUSTRY.**

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THE ELECTROSYNC IS THE LATEST IN A TRADITION OF FINE  
STEP OPTICAL PRINTERS USED IN MORE STUDIOS AROUND  
THE WORLD THAN ALL OTHER PRINTERS COMBINED.

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|--|--|---|
| <p>1 Aerial projector tilt</p>                                 | <p>8 Independant high-performance servomotors for camera and projectors</p>      | <p>13 Camera projector and aerial projector controls.</p>   |
| <p>2 Aerial reduction and blow-up 16:35mm</p>                  | <p>9 Digital electronic frame and foot-frame counters.</p>                       | <p>14 Skip/add cycler.</p>  |
| <p>3 Aerial image, variable speed, auto-focus</p>              | <p>10 Camera follow focus for reduction and blow-ups from Super-8 to 35mm.</p>   | <p>15 Speed control module with digital speed readout, push button, control continuously variable control dial and fast rewind.</p> |
| <p>4 Variable soft focus control</p>                           | <p>11 Digital electronic frame and foot/frame totalizer counters for camera.</p> | <p>16 Film take-up tension control.</p>   |
| <p>5 Automatic iris</p>  | <p>12 Circuit-breaker panel</p>  | <p>17 Predetermined frame counter.</p>  |
| <p>6 Camera tilt</p>   |  |   |
| <p>7 Accepts 400', 1000', 1200' and 400' bi-pack magazines</p> |  |   |

## SPECIAL EFFECTS OPTICAL PRINTER — Model # 5116-02

OXBERRY Model 5116 16mm-35mm Special Effects Step Optical Printer, with main projector and aerial image projector head; includes the following components:

- 5120-02** Optical Printer Camera, 35mm (built-in provisions for receiving 35mm, 35-32mm, 16mm, double standard 8 mm, and Super 8mm components):  
Camera includes:
- 5120-20 Superimposure Viewing Device—Automatic with safety & override
  - 5120-21 35mm Registration Pin Plate and 35/16mm Reticle
  - 5030-20 35mm Camera Shuttle
  - 5040-20 35mm Camera Sprocket
  - 5120-10 Automatic Dissolve and Fade Mechanism, 8 to 128 frames, in 16 steps with manual control for 170° rotating shutter
  - 5120-15 Four Motor Takeups accept 400 ft., 400 ft. bi-pack, 1000 ft. and 1200 ft. magazines with tension control
  - 5120-16 Buckle Switch
  - 5020-00 35mm, 400-foot Magazine
  - 5116-50 Automatic Focus Mechanism (Range 4:1 diameter enlargement through 1:1 to 4:1 diameter reduction). With hand crank, counters and precision dial in .001 increments
  - 5116-12 103mm F/2.8 Ektar Lens with automatic iris for 1:3 enlargement to 4:1 reduction.
  - 5116-54 Automatic Focus Carriage for Camera with tilt mechanism of +15° and -10° of center on optical axis.
- 5116-10** Main Projector (built-in provisions for receiving 35mm, 35-32mm, 16mm, double standard 8mm, and super 8mm components).  
Projector includes:
- 5030-30 35mm Projector Shuttle
  - 5040-30 35mm Projector Sprocket Assembly Set
  - 5116-17 Compound N/S, E/W, with dial indicators in .0005" increments
  - 5116-22 Aerial Image Unit, 35mm:
    - 5116-24 Aerial Image Projector, 35mm (built-in provisions for receiving 35mm and 35-32mm, 16mm double standard 8mm and super 8 components) with 7° tilt on optical axis includes:
      - 5030-40 Aerial Image Projector Shuttle, 35mm
      - 5040-30 Projector Sprocket Assembly Set, 35mm
    - 5110-32 6-inch F/2.8 Cooke Copy Lens in OXBERRY Mount with precision dials.
    - 5116-72 Aerial Image Zoom Control with hand crank and counters for enlargement and reduction (permits 16 to 35mm and 35 to 16mm photography)
    - 5116-63 Projector Independent Electronic Servo Stop Motion Drive
  - 5116-26 Lamphouse, 1000 watt system with regulated electronic control
- 5116-65** Main Printer Housing, includes:
- 5116-66 Modular Control Panel and Cabinet containing all controls and rackmounted printed circuit boards
  - 5116-61 Multi-Speed Motor Drives, 60, 85, 120, 180, 240, 320, frames per minute with preset push-button speeds for stop motion or manually controlled speed from 0 to 720
  - 5116-62 Camera Independent Electronic Servo Stop Motion Drive with past pull-down speed.
  - 5116-63 Projector Independent Electronic Servo Stop Motion Drive
- 5116-01D** Digital Electronic Counters 5½ digits of ½" L.E.D. read-outs. Can be switched to read in frames or foot-frames, forward or reverse, reset by push-button control and preset electrically to any starting number.

Printer as described above is available with 16mm components at the same price.

OXBERRY Optical Printer, identical to the above except for electro-mechanical drives, is available on request.  
No. 5116-00.



## SPECIAL EFFECTS OPTICAL PRINTER – Model # 5116-02

OXBERRY Model 5116 16mm-35mm Special Effects Step Optical Printer, with main projector and aerial image projector head; includes the following components:

- 5120-02** Optical Printer Camera, 35mm (built-in provisions for receiving 35mm, 35-32mm, 16mm, double standard 8 mm, and Super 8mm components):  
Camera includes:
- 5120-20 Superimposure Viewing Device—Automatic with safety & override
  - 5120-21 35mm Registration Pin Plate and 35/16mm Reticle
  - 5030-20 35mm Camera Shuttle
  - 5040-20 35mm Camera Sprocket
  - 5120-10 Automatic Dissolve and Fade Mechanism, 8 to 128 frames, in 16 steps with manual control for 170° rotating shutter
  - 5120-15 Four Motor Takeups accept 400 ft., 400 ft. bi-pack, 1000 ft. and 1200 ft. magazines with tension control
  - 5120-16 Buckle Switch
  - 5020-00 35mm, 400-foot Magazine
  - 5116-50 Automatic Focus Mechanism (Range 4:1 diameter enlargement through 1:1 to 4:1 diameter reduction). With hand crank, counters and precision dial in .001 increments
  - 5116-12 103mm F/2.8 Ektar Lens with automatic iris for 1:3 enlargement to 4:1 reduction.
  - 5116-54 Automatic Focus Carriage for Camera with tilt mechanism of +15° and -10° of center on optical axis.
- 5116-10** Main Projector (built-in provisions for receiving 35mm, 35-32mm, 16mm, double standard 8mm, and super 8mm components).  
Projector includes:
- 5030-30 35mm Projector Shuttle
  - 5040-30 35mm Projector Sprocket Assembly Set
  - 5116-17 Compound N/S, E/W, with dial indicators in .0005" increments
  - 5116-22 Aerial Image Unit, 35mm:
    - 5116-24 Aerial Image Projector, 35mm (built-in provisions for receiving 35mm and 35-32mm, 16mm double standard 8mm and super 8 components) with 7° tilt on optical axis includes:
      - 5030-40 Aerial Image Projector Shuttle, 35mm
      - 5040-30 Projector Sprocket Assembly Set, 35mm
    - 5110-32 6-inch F/2.8 Cooke Copy Lens in OXBERRY Mount with precision dials.
    - 5116-72 Aerial Image Zoom Control with hand crank and counters for enlargement and reduction (permits 16 to 35mm and 35 to 16mm photography)
    - 5116-63 Projector Independent Electronic Servo Stop Motion Drive
  - 5116-26 Lamphouse, 1000 watt system with regulated electronic control
- 5116-65** Main Printer Housing, includes:
- 5116-66 Modular Control Panel and Cabinet containing all controls and rackmounted printed circuit boards
  - 5116-61 Multi-Speed Motor Drives, 60, 85, 120, 180, 240, 320, frames per minute with preset push-button speeds for stop motion or manually controlled speed from 0 to 720
  - 5116-62 Camera Independent Electronic Servo Stop Motion Drive with past pull-down speed.
  - 5116-63 Projector Independent Electronic Servo Stop Motion Drive
- 5117-41-01D** Digital Electronic Counters 5½ digits of ½" L.E.D. read-outs. Can be switched to read in frames or foot-frames, forward or reverse, reset by push-button control and preset electrically to any starting number.

\* Printer as described above is available with 16mm components at the same price.

\*\* OXBERRY Optical Printer, identical to the above except for electro-mechanical drives, is available on request.  
Part. No. 5116-00.

## SPECIAL EFFECTS OPTICAL PRINTER Model # 5116-01

OXBERRY Model 5116 16mm-35mm Special Effects Step Optical Printer, with one projector, includes the following components:

- 5120-01** Optical Printer Camera, 35mm (built-in provisions for receiving 35mm, 35-32mm, 16mm, double standard 8mm, and Super 8mm components).  
Camera includes:
- 5120-20 Superimposure Viewing Device—Automatic with safety & override
  - 5120-21 35mm Registration Pin Plate and 35/16mm Reticle
  - 5030-20 35mm Camera Shuttle
  - 5040-20 35mm Camera Sprocket
  - 5120-10 Automatic Dissolve and Fade Mechanism, 8 to 128 frames, in 16 steps with manual control for 170° rotating shutter
  - 5120-15 Four Motor Takeups accept 400 ft., 400 ft. bi-pack, 1000 ft. and 1200 ft. magazines with tension control.
  - 5120-16 Buckle Switch
  - 5020-00 35mm, 400-foot Magazine
- 5116-10** Projector (built-in provisions for receiving 35mm, 35-32mm, 16mm, double standard 8mm, and super 8mm components).  
Projector includes:
- 5030-30 35mm Projector Shuttle
  - 5040-30 35mm Projector Sprocket Assembly Set
  - 5116-17 Compounds N/S, E/W, with dial indicators in .0005" increments
  - 5116-63 Projector Independent Electronic Servo Stop Motion Drive
  - 5116-26 Lamphouse, 1000 watt system with regulated electronic control.
  - 5116-50 Automatic Focus Mechanism (Range 4:1 diameter enlargement through 1:1 to 4:1 diameter reduction). With hand crank, counters and precision dial in .001 increments.
  - 5116-12 103mm F/2.8 Ektar Lens with automatic iris for 1:3 enlargement to 4:1 reduction.
  - 5116-54 Automatic Focus Carriage for Camera with tilt mechanism of +15° and -10° from center on optical axis.
- 5116-65** Main Printer Housing; includes:
- 5116-66 Modular Control Panel and Cabinet containing all controls and rackmounted printed circuit boards
  - 5116-61 Multi-Speed Motor Drives, 60, 85, 120, 180, 240, 320, frames per minute with preset push-button speeds for stop motion or manually controlled speed from 0 to 720
  - 5116-62 Camera Independent Electronic Servo Stop Motion Drive with fast pull-down speed.
- 5117-41-01 D** Digital Electronic Counters 5½ digits of ½" L.E.D. read-outs. Can be switched to read in frames or foot-frames, forward or reverse, reset by push-button control and preset electrically to any starting number.

The above Printer is wired to accept a second Projector Head in the future.

\*\* OXBERRY Optical Printer, identical to the above except for electro-mechanical drives, is available on request.  
Part No. 5116-00.