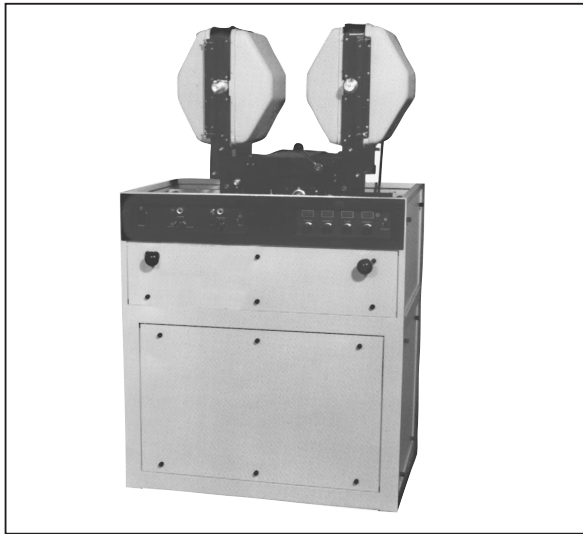




EGOLTRONICS

SP10/70C Continuous Strip Dodging Printer and SP10/70CLS Continuous Strip Color and Black & White Printer



**SP10/70C
Continuous Strip Dodging Printer**

GENERAL DESCRIPTION

The SP10/70C Continuous Strip Printer is a floor model high speed, high resolution dodging contact printer for reproducing rolls of aerial negatives on duplicating film or paper in roll form. Like other Egoltronics printers, the SP10/70C features automatic incremental exposure control to compensate for varying densities in the negative being reproduced. In addition, the SP10/70C incorporates modular, plug-in solid-state electronics for higher reliability and easier maintenance.

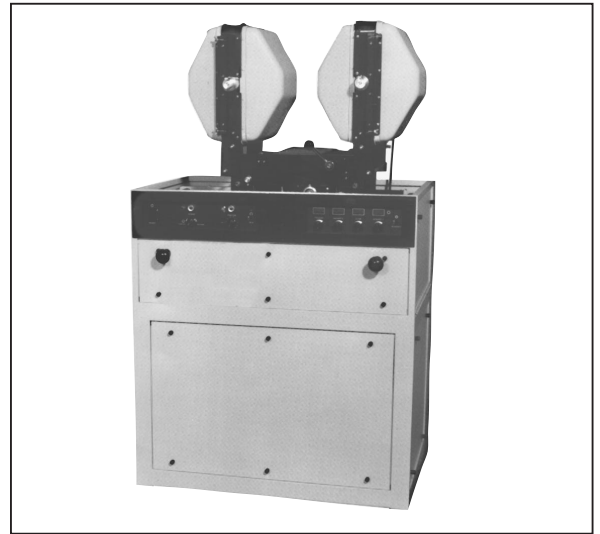
APPLICATIONS

The SP10/70C provides the capability for volume production of uniformly exposed high resolution reproduction films and prints from black and white aerial reconnaissance or mapping photography.

OPERATING PRINCIPLE

The SP10/70C transports the original transparency and printing material at a selected constant velocity and brings them into intimate contact, emulsion-to-emulsion, at the printing aperture, where light optically projected from the face of a cathode-ray tube makes the exposure. The small, intense CRT spot traverses the width of the materials at right angles to the direction of transport, and two photomultiplier tubes (PMT's) sense the transmitted light. The signal from PMT No. 1 is used for exposure control of overall frame-to-frame density variation. PMT No. 2 generates a signal for local dodging control of image contrast by modulating the spot intensity.

As a result of automatic dodging the SP10/70C yields a much higher percentage of useful prints than is possible with other high speed continuous strip printers.



**SP10/70CLS
Continuous Strip Color
and Black & White Printer**

GENERAL DESCRIPTION

The SP10/70CLS Continuous Strip Printer is a high speed, high resolution, roll-to-roll contact printer for color and black-and-white materials.

The SP10/70CLS uses a high efficiency tri-color light source for printing color and black-and-white imagery on film or paper.

The microprocessor controlled electronics of the SP10/70CLS are solid state, mounted on plug-in modules with built in diagnostics and are easily accessible.

APPLICATIONS

While its primary applications are aerial reconnaissance and mapping photography, the SP10/70CLS can be used wherever high resolution roll-to-roll contact printing is required either in color or black and white.

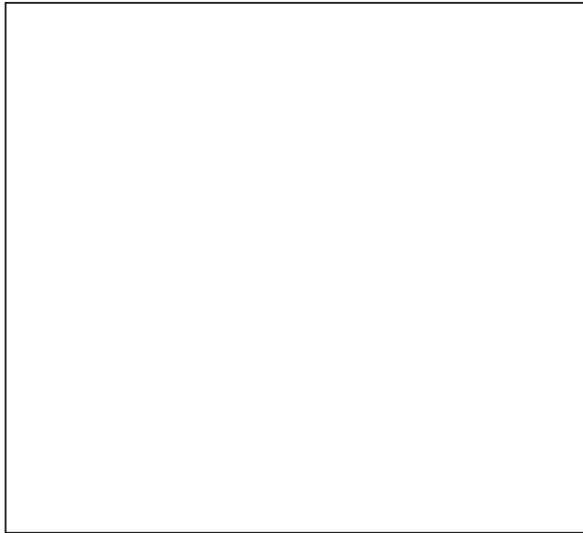
OPERATING PRINCIPLE

The SP10/70CLS transports the original transparency and printing material at a selected constant speed, and brings them into contact, emulsion-to-emulsion, at a printing aperture, where light projected from a tri-color light source makes the exposure.

The light source consists of three tungsten-halogen lamps, individually filtered and regulated to provide a chosen color temperature output for any given control setting.

The desired color balance is entered and displayed on the front panel, and is maintained by microprocessor control. An automatic compensating feature allows the operator to adjust exposure level without affecting color temperature or balance or to adjust color balance without affecting overall intensity.

SPECIFICATIONS



SP10 /70C

TRANSPARENCY MATERIAL

Positive or negative roll film (400' (122m) max) in 70mm, 5" (12.7cm) or 9 3/8": (23.8cm) width, accommodates standard film spools (2" (5 cm) min. core diameter).

PRINTING MATERIAL

Film-base or paper-base roll (500' maximum, emulsion in) in widths from 70mm to 9 3/8" (23.8cm) accommodates 12" (30.5cm) diameter roll (2" (5cm) min. core diameter).

PRINTING LIGHT

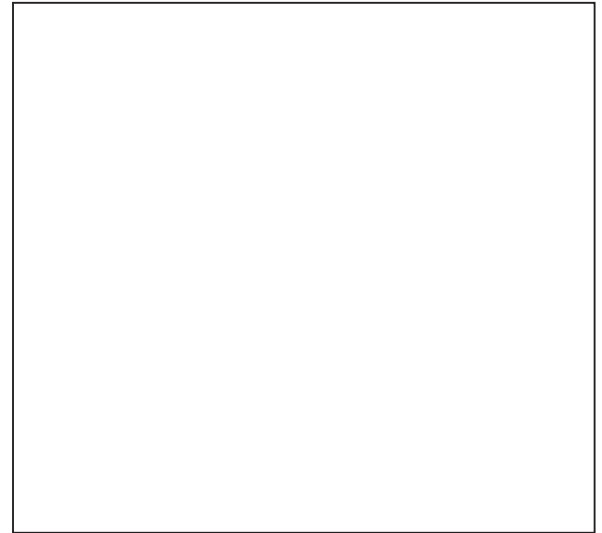
10" (25.4cm) diameter cathode-ray tube.

EXPOSURE CONTROL

Exposure level of the reproduction held constant within 20 per cent for transparency average density range from 0.3 to 1.8 by d-c coupled inverse feedback from a photomultiplier tube to printing light source. Intensity of the scanning spot is automatically and instantaneously modulated inversely according to negative density by a-c amplified output of a second photomultiplier tube.

ELECTRICAL REQUIREMENTS

115VAC 50-60Hz. 8 amperes or 230VAC 4 amperes. Printer is internally regulated against line voltage changes between 105 and 130V.



SP10 /70CLS

TRANSPARENCY MATERIAL

Positive or negative, color or black-and-white roll film. Width: 70mm, 5" (12.7cm), or 9 3/8" (23.8cm). Maximum length: 400' (122m). Accommodates standard film spools, 2" (5cm) minimum core diameter.

PRINTING MATERIAL

Color or black and white paper or film roll (500' maximum, emulsion in) in widths from 70mm to 9 3/8" (23.8cm). Accommodates 12" diameter roll (2"/5cm core diameter).

PRINTING LIGHT

Tri-color light source derived from three individually filtered tungsten halogen lamps.

COLOR CORRECTION

The red, green and blue components of the light source are controlled by four front-panel controls. Three adjust the color components to provide the selected color balance; the fourth adjusts intensity without affecting color. Color balance settings are displayed as the equivalent YMC color filtration. Each "filter" may be adjusted over a 0 to 1.2 density range.

EXPOSURE CONTROL

Exposure is controlled by the transport or printing speed, and the intensity control. The control range is greater than 4:1.

ELECTRICAL REQUIREMENTS

115VAC 16 amps, or 230-VAC 8 amps (must be selected at time of order). The printer is internally regulated against line voltage changes of + or - 10%.

COMMON SPECIFICATIONS

TRANSPORT SPEED: Continuously variable, from about 6-60 feet (1.8 - 18m)/minute.

CONTACT: Emulsion-to emulsion.

RESOLUTION: Nominal 200 lines/millimeter with suitable material and target resolution.

STATIC CONTROL: For certain materials, pre-conditioning to enhance moisture content, auxiliary static control devices, and/or environmental humidity controls may be needed to minimize static discharge marking of film or paper.

DIMENSIONS: (Approximate) Width: 40" (102cm). Depth: 25" (64cm). Height: 68" (173cm).

WEIGHT: (Approximate) Net weight 620 lbs, (282kg)

ACCESSORIES: 1. Adapters for 70mm or 5" (12.7cm) roll film. 2. Spare Parts Kit.

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