High Speed Dry Modular Printer

*M*odels 6127E & 6131E with bi-directional dry printing speeds up to 960 feet per minute and film capacity of 4,000 feet, provides efficient, high quality, volume release print production.
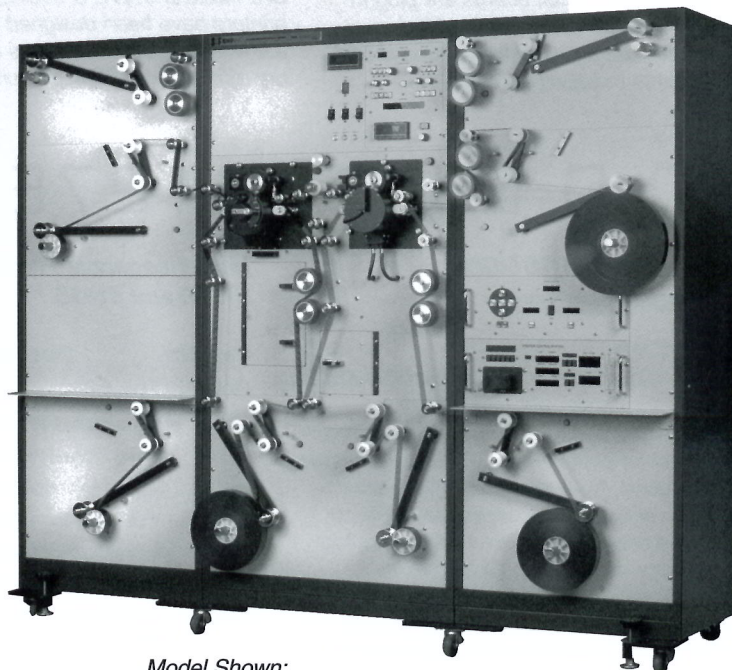
This leaflet describes the 6127E. See overleaf for details of 6131E differences.

Model Shown: 6127ED

BHP, Inc., successor to the Bell & Howell Professional Equipment Division and world's most experienced manufacturer of precision motion picture film laboratory equipment, presents the latest model of its high speed modular continuous contact motion picture film printer.

The Model 6127E & 6131E Printer have been designed to maximize print quality, negative safety and production efficiency. The simplified film threading path and high speed bidirectional film transport system provide efficient, high quality release printing. Further use of the optional electronic fader permits fast preparation of intermediate negatives with unmatched quality, accuracy and safety of original camera negatives.

Interchangeable Film Formats

Model 6127E & 6131E Printers accept interchangeable picture and sound printing heads to enable printing both 16mm and 35mm format films on the same printer. Printing head/film format changes may be done quickly and easily without tools. Sprocket location, dual format film transport rollers and printing aperture gate rollers are all factory pre-aligned. Precision single format 35mm film rollers are also available for those laboratories requiring only 35mm print production. Safe light threading lamps are provided on the printer above each printing head.

Unmatched Print Steadiness, Gentle Film Handling

The patented film transport system utilizes a DC servo motor design that does not require feed and take-up sprockets. Its single sprocket design provides outstanding print quality at all film transport speeds for both standard printing applications and archival printing from cellulose nitrate base negatives or other shrunken film. The simplified film threading path facilitates fast, accurate set-up. The gentle film transport system is safe for original camera negatives and minimizes internegative wear over long print runs. The gearless drive system is quiet in operation and easy to maintain. Vacuum film cleaners with vacuum pump, or Particle Transfer Roller film cleaners, are available as options.

Fast, Accurate Exposure Control

Model 6127E & 6131E Printers include the BHP additive color light source incorporating high speed BHP Electronic Light Valves. The BHP Electronic Fader is available as an option for smooth, accurate fades and dissolves, or to minimize raw stock loss as a part of the BHP Ramp Exposure Control System. Simplified servo motor construction of both the Electronic Light Valve and Fader virtually eliminates maintenance and produces a significant breakthrough in accuracy and reliability of operation.

Modern, Flexible Printer Control

The Printer Control System is microprocessor based and provides for electronic storage of color, fade and frame count cue data. Control tape data may be accessed through the standard BHP photo-electric tape reader from standard BHP/ Bell & Howell printer control tapes. Electronic Light Valve "trim" settings, Electronic Fader curve selection and a variety of printer set-up functions may be quickly and accurately made at the Printer Control System.

Operator Friendly

Other set-up and operating controls are grouped in convenient control panels. The Set-Up Control Panel is used for printer set-up and includes selector switches for film transport speed, printing mode and film format. A digital voltmeter is provided to selectively monitor printing lamp and other operating voltages. The Operator Control Panel permits one button printer operation while automatically incorporating a full range of printer safety features. A series of microcontroller based routines incorporated in the Set-Up and Operator Control Panels simplifies several printer set-up and maintenance functions.

Ease of Maintenance

The Printer Control System and Operator Control Panel are rack mounted on rails and may be slid out for adjustment and service. Printed circuit boards are plug-in modules and are easily removable for service convenience. All major mechanical components including the main drive system, light valves, and the fader assembly are readily accessible from the rear of the printer.

BHP Models 6127E & 6131E series printers have been designed to be the world's finest continuous contact dry motion picture film printers.

Each model provides high quality print reproduction, gentle film handling, reliability of operation and ease of maintenance. All BHP printers are backed by a comprehensive product warranty and the resources of the BHP field/factory service department.

M O D E L S   6127E and 6131E

Ordering Information

Description

Model 6127E: Continuous Contact Dry Motion Picture Film Printer with one each picture and sound printing heads, automatic additive color light source with three electronic light valves, PCS program tape reader/controller with microprocessor color/frame count cue memory system, microcontroller set-up/diagnostics, single 4,000 foot (1,220 m) raw stock feed and take-up system, 4,000 foot (1,220 m) picture and sound negative feed and take-up systems, and picture printing lamp and sound printing lamp rectifier and power supplies.

Standard Film Format Models

The film format of the picture and sound heads furnished with each printer is identified by a letter suffix to the printer model number as follows:

Format	Models
35mm	6127ED & 6131ED
16mm	6127EJ & 6131EJ

In addition to the standard models described in this leaflet, special printer models are also available for 35mm motion picture film printing with 6,000 foot (1,830 m) single raw stock film capacity, 65/70mm motion picture film printing, and 70mm still (instrumentation) long roll film printing.

Interchangeable Film Format Printing Heads and Accessories for 6127E and 6131E

Part No.	Description

Printing Heads –

038407	35mm Picture Printing Head
038408	16mm Picture Printing Head
038326	Super 16mm Aperture Assembly
038448	16-35/32 Picture Printing Head
038409	35mm Sound Printing Head
038410	16-35/32 Sound Printing Head
038411	35mm Dolby Digital Sound Printing Head
038562*	35mm Analog/Digital Sound Printing Head
038765	35mm Dry 2% Shrunken Picture Head
038754	35mm Dry 2% Shrunken Sound Head – Analog only
038756	16mm Dry 1.25% Shrunken Sound Head

*For model 6131E

Accessories & Spare Parts –

037632	Superimposure/Dual 4,000 foot Raw Stock Kit
038533	Electronic Fader
038181	Fader/Ramp Exposure Control System
038362	Particle Transfer Roller Kit - Lower Raw Stock
038363	Particle Transfer Roller Kit - Upper Raw Stock
038364	Particle Transfer Roller Kit - Negative
038527	Vacuum Film Cleaner Kit
038675	Electronic Light Valve
038143	Program Tape Reader Head
038416	Dry Printer Spare Parts Kit (6127 model)
038663	Dry Printer Spare Parts Kit (6131 model)
316994	35mm Particle Transfer Roller
038636*	BHP PCS Printer Control Editor® Software
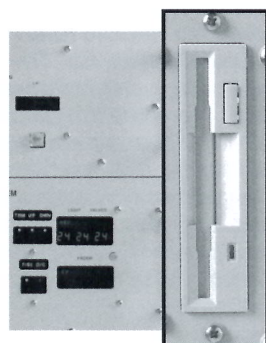
MODEL 6131E

Description

Same as Model 6127E, but adds a 3-1/2 inch floppy disc reader to the Printer Control System, in addition to the standard control tape reader.