

M O D E L S

6127R / 6131R

**BHP Inc.**

## Wet/Dry Modular Printer

*The versatile Models 6127R & 6131R offer both total immersion wet printing for preparing high quality intermediates, and bi-directional dry printing with film capacity of 4,000 feet for efficient release print production.*



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 wet/dry modular continuous contact motion picture film printer.

The Model 6127R & 6131R Wet/Dry Printer has been designed to maximize print quality, negative safety and production efficiency. The simplified film threading path and fast bi-directional film transport system also provide efficient, high quality dry release printing when equipped with an optional dry picture printing head. Further use of the optional e/electronic fader in either dry or wet printing modes permits fast preparation of intermediate negatives with unmatched quality, accuracy and safety of original camera negatives.

### **Interchangeable Film Formats**

Model 6127R & 6131R 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. 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. A Particle Transfer Roller film cleaner is supplied as standard for the lower raw stock. Optional Particle Transfer Roller film cleaners for the negatives and upper raw stock further improve the cleanliness of dry prints and help protect the wet printing liquid from film borne particulate contamination. The gearless drive system is quiet in operation and easy to maintain.

### **Safe, Reliable Wet Printing**

Model 6127R & 6131R Printers have been designed for safe, reliable operation with economical perchloroethylene as the wet printing liquid. The wet printing system is contained entirely within the printer and includes a pump to deliver liquid from an external bulk supply to a supply reservoir in the base of the printer. Within the printer, the wet printing liquid is circulated and filtered from the supply reservoir to a working reservoir above the wet printing head. The combination of negative and raw stock wipers and a unique liquid circulation system within the printing head assures reliable, bubble free wet printing performance. After printing, another series of wipers and heated forced air dries both the picture negative and raw stock prior to film take up. Exhaust hoods disburse wet printing liquid fumes making the printer safe for normal laboratory use when installed and operated in accordance with the instructions contained in the manual supplied with the printer.

### **Fast, Accurate Exposure Control**

Model 6127R & 6131R 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. 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 either through the standard BHP photoelectric tape reader from standard BHP/Bell & Howell printer control tapes, or from an external computer through an optional RS 232 or 422 data port. 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. The wet printing liquid circulation system, and the film drying heaters and blowers are also readily accessible to facilitate changing wet printing liquid and film drying filters.

BHP Models 6127R & 6131R series printers have been designed to be

among the world's finest continuous contact wet/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.

# MODEL 6127R

## Ordering Information

### Description

Model 6127R: Continuous Contact Wet/Dry Motion Picture Film Printer with wet picture printing system including one wet picture printing head module with solution tank and wet printing film transport system, solution fume exhaust system, solution supply, circulation, filtering and bubble trap system and film drying assemblies, one dry sound printing head, 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, lower raw stock Particle Transfer Roller film cleaner, and picture 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	6127RD & 6131RD
16mm	6127RJ & 6131RJ
16-35/32	6127RL

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

## Interchangeable Film Format Printing Heads and Accessories

### Part No. Description

#### Printing Heads –

038412	35mm Wet Picture Printing Head
038413	16mm/Super 16mm Wet Picture Printing Head
038518	16-35/32 Wet Picture Printing Head
038414	35mm Dry Picture Printing Head
038415	16mm Dry Picture Printing Head
038326	Super 16mm Dry Printing Aperture Assembly
038448	16-35/32 Dry Picture Printing Head
038409	35mm Sound Printing Head
038410	16mm Analog Sound Printing Head
038411	35mm Dolby Digital Sound Printing Head
038562*	35mm Analog/Digital Sound Printing Head

#### Accessories & Spare Parts –

037899	Superimposure/Dual 4,000 ft. Raw Stock Kit
038300	Electronic Fader
038533*	Electronic Fader
038362	Particle Transfer Roller Kit - Lower Raw Stock
038363	Particle Transfer Roller Kit - Upper Raw Stock
038364	Particle Transfer Roller Kit - Negative
038003	Electronic Light Valve
038143	Program Tape Reader Head
038417	Wet/Dry Printer Spare Parts Kit
316994	35mm Particle Transfer Roller
038526*	Dolby Digital Sound Printing Light Source
038636*	BHP PCS Printer Control Editor® Software
038664*	Wet/Dry Printer Spare Parts Kit

\*For model 6131R

# MODEL 6131R

### Description

Model 6131R: Continuous Contact Wet/Dry Motion Picture Film Printer with wet picture printing system including one wet picture printing head module with solution tank and wet printing film transport system, solution fume exhaust system, solution supply, circulation, filtering and bubble trap system and film drying assemblies, one dry sound printing head, automatic additive color light source with three electronic light

valves, PCS microprocessor color/frame count cue memory system with 1/2 step trims, program tape reader and 3-1/2 inch floppy disk reader, 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.



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