



# RANGER PRO PRINTING SYSTEM

**Versatile  
Hi-Resolution  
Printing**



## Quality Print To Meet Your Demands

Leader's Ranger Pro printing system is designed to print superior quality hi-resolution characters on corrugated cases and other porous surfaces. With up to 2.1" of print height per head and the ability to run up to 4 printheads from one controller, the Ranger Pro offers a versatile, yet cost effective solution for your coding applications.

## Right-Size Your Printing Application

Ranger Pro 380 printheads print up to 2.1" in height, exceeding the GS1 specification for case code printing, without the additional cost of a larger printhead. Larger print engines cost more to begin with, cost more to replace, and utilize significantly more ink. Ranger Pro offers the right size print engine for your case coding application. Industry proven piezo technology produces razor-sharp text and dark print for increased bar code scannability. In addition, the Ranger Pro can run at speeds up to 167 feet/minute, ideal for most secondary packaging lines.

## Minimize Your Maintenance

The Ranger Pro is designed with low maintenance features that users have come to rely on from Leader. The Ranger Pro features ATM-simple, easy to follow user prompts to program, save and store messages. In addition, the built-in software automatically calculates ink usage for each message so you can modify your messages and control your consumable costs. The system also comes with auto configuration software that is written to simplify setup of printing. Working with the photocell, the system automatically calculates product speed, making printing on your products easier while providing consistent print quality.

## Maximize Your Uptime

The Ranger Pro is designed to meet the harsh demands of your application. Stainless steel cabinetry, a durable touchscreen keypad and stainless steel printhead allow the Ranger Pro to operate in the most extreme factory environments. You can be confident that Ranger Pro's rugged stainless steel design will withstand the most abusive industrial environments while providing superior quality print.

## Affordable Ink Jet Coding

Whether you are a seasoned pro, or if you have wanted to start printing codes on your products, but felt your budget restricted you from doing so, the Ranger Pro offers a new level of economy. As the newest addition to Leader's growing family of marking and coding systems, the Ranger Pro gives users more choices for their coding applications. Any way you look at it, Leader's Ranger Pro provides users with an affordable solution to meet their ink jet coding needs.

## The Right Solution

Rugged design. Low maintenance operation. User friendly software. Lower cost of ownership. Your benefits go on and on. When it comes to industrial ink jet printing, rely on Leader to provide the right solution for your marking and coding needs.

# RANGER PRO

## PRINTING SYSTEM

### Ranger Pro Printing System Components

- Stainless controller with touchscreen user interface and dual can ink delivery system
- Up to four 380 printhead(s) with data cable(s) and ink line(s)
- Photocell and photocell mounting bracket



**Color touchscreen display offers ATM-simple software for message creation and recall.**



**Run two heads from one controller.**



**Or run up to four heads with one controller. All components are field installable for future upgrade.**



**Ranger Pro offers premium print quality for razor-sharp logos, small character text and scannable bar codes.**

### Ranger Pro Printing System Specifications

**Print Technology** - Piezo impulse printhead technology

**Printheads** - Up to four high resolution, 380 channel piezo printheads

**Maximum Print Height** - 2.1" (53.7 mm) per 380 printhead, meets GS1 specification for case code printing

**Vertical Print Resolution** - 180 dpi capable of printing razor-sharp graphics, small character text, and scannable bar codes

**Horizontal Print Resolution** - 180 dpi

**Print Speed** - Up to 167 feet/minute @ 180 dpi with 380 printhead

**Time & Date** - Internal real time clock with battery back-up

**Product Sensor** - Reflective sensor standard with automatic speed sensing; dual photocell inputs standard

**Communication Interface** - Four USB host, USB peripheral, ethernet, and RS-232 inputs standard

**Touchscreen** - 6.4" color display

**Ink System** - Active ink system; dual 400ml ink canister standard, optional large volume bulk ink system available

**Low Ink Indicator** - Warning messages alert user on the touchscreen display, LED light beacon optional

**Substrate Capabilities** - Porous surfaces

**Cabinet Construction** - Stainless steel, solvent-resistant color touchscreen display

**Electrical Requirements** - 90 - 264 VAC, 50/60 Hz

**Operating Environment** - 34°F - 104°F (1° - 40°C)

**Storage Environment** - 0°F - 140°F (-18° - 60°C)

### Ranger Pro Software Specifications

**Time & Date** - Multiple formats including: 3-letter, 2-digit, 1-letter month; 3-letter or 2-digit day; 2-digit hour; 2-digit minute; 2-digit second; 4-digit or 2-digit year; 2-digit week; 24-hour clock or 12-hour clock with AM or PM; Julian date

**Item Numbering** - Four independent counters, selectable count direction, number of digits, count by, rollover, reset value, batch counter, all counters maintained in non-volatile memory

**Shift Codes** - Four programmable shift codes with automatic rollover

**Bar Codes** - Code 39, Interleaved 2 of 5, UPC-A, EAN-8, EAN-13, Code 128, UCC-128, SCC 14, SSCC-18, Postnet, MSI, DataMatrix and PDF417 bar codes standard

**Fonts** - On the fly generation of TrueType® fonts

**Printing Features** - Reverse, invert, inverse, rotate, repeat, variable print density

**Auto Configuration** - System software can use product length and photocell sensor to automatically configure speed and delays for each message

**Number of Messages** - 2GB flash memory available for message storage; actual message size will vary based on content

**Message Length** - 120"

**Graphics** - Any Windows bitmap in 1-bit (black/white) format

**Ink Usage** - Automatically calculated for each message and displayed on touchscreen

**Security** - 2 modes of operation: user and administrator

**User Prompts** - Prompts for user input at start of print job by manual intervention on touchscreen display or scanner

**Software Utilities** - USB file management software standard

**Languages** - User selectable between English, Spanish, and Chinese

### Ranger Pro Optional Accessories

**ImageMaster Software** - For message design and recall; messages can be downloaded and recalled with touchscreen keypad

**Encoder** - For operation with variable speed conveyors

**Bar Code Laser Scanner** - Allows scan and print message retrieval

**Conveyor Mounting Bracket** - L-Bracket for complete system with one printhead

**Floor Stand** - Includes mounting brackets and legs with leveling feet; 57" (1.5m) total height

**Starter Kit** - Includes ink, cleaner and flush solution, flush kit, printhead wipes, hand cleaner and latex gloves



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