LR 54

Full Color Inkjet Web Press

- ■ CMYK + White/ Varnish/ Primer
- ■ Water-based, or UV Curable Inks
- ■ Up to 100m/min (328ft/min)
- ■ 600 x 600 DPI Resolution
- ■ Supports a Variety of Media Types

TECHNICAL SPECIFICATIONS

Productivity	600 x 600 dpi: Up to 75 m/min (246 ft/min) 600 x 300 dpi: Up to 100 m/min (328 ft/min)
Printing	Print Technology: DOD Piezoelectric Print Resolution: 600 x 600 dpi, 600 x 300 dpi Native Drop Volume: 7pl-21pl with grayscale Print Width: Up to 54mm (2.13") Print Head Maintenance: Automatic Print Head Maintenance Module for purging, wiping and capping
Ink	Ink Type: Water-based ink, or UV Curable Ink (Customized for your application) Ink Colors: CMYK + White, CMYK + Varnish/ Primer (for UV curable ink only) Ink Tank Volume: 1L
Media	Handling: Tight web continuous roll feed Types: Self-adhesive label stock, PP, PE and PET, coated paper, cast coated paper, uncoated paper, fabric ribbon, etc. Roll-fed Width: 60mm-120mm (2.36"-4.72") Thickness: 0.05mm-0.40mm (1.97mils-15.75mils) Roll Diameter: Max. 600mm (23.6") Roll Weight: 60kg Core Diameter: 76mm (3.0")
Dimensions(W x D x H)	1800mm x 700mm x 1570mm (70.9" x 27.6" x 61.8")
Weight	686kg
Operating Environment	Temperature: 18-28°C (64-82°F) Relative Humidity: 40-60% (Recommended)
Power Requirements	Frequency 50-60 Hz; Voltage 220V; Power 2.2 KW/ 10A (No curing unit)
Optional Equipment	PC: Intel 4 Core i7, 16 GB dual-channel, 500G Curing System: UV-LED lamp (for UV curable ink) Drying System: NIR drying module (for Water-based ink)
Software and User Interface	Professional Printer Control Software (PCS Pro) MagicPage VDP Software ColorPRINT RIP Software
Connectivity	PCIE card

APPLICATIONS

Labels Tickets Clothing Tags Lotteries/ Bingos Ribbons/ Lanyards

AMICA SYSTEMS

E-mail: sales@amicasystems.com   For more information, please visit **www.amicasystems.com**
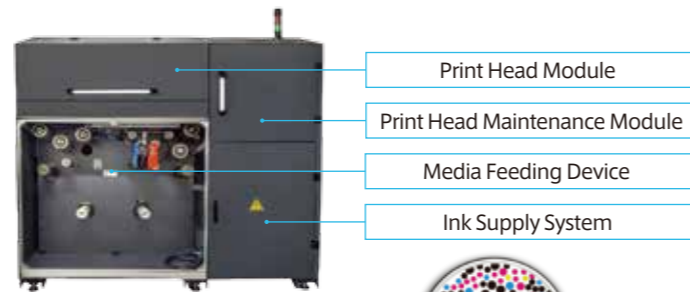
As Amica's latest full color inkjet web press, the compact and robust LR54 offers outstanding print quality, exceptional productivity and great flexibility. With innovative DOD piezoelectric inkjet print technology and versatile ink systems, LR54 supports a wide range of media that can be applied as labels for food, beverage, pharmaceutical and cosmetic products, tickets, clothing tags, lotteries/ bingos, and ribbons/ lanyards for decoration. The features of LR54 such as White/ Varnish/ Primer ink, professional RIP and Variable Data Printing software, and easy maintenance will help you create new business and win potential profit.

Experience outstanding print quality with innovative technologies

Industrial high-resolution and high-speed DOD piezoelectric print heads combines excellent print quality and high efficiency with exquisite and consistent color quality, plus sharp, clear, easy-to-read barcodes, graphics and texts. Print heads feature up to 600dpi physical resolution, minimum 7pl ink drop size, high jetting frequency, and support grayscale printing.

Automatic and accurate media feeding control optimizes print quality and reliability. Intelligent tension control system, roll position sensor and media deviation rectifier ensure high precision media feeding for reliable print quality. The signal encoder enables to acquire media feeding signal for high-speed and accurate variable data printing.

Print Head Module
Print Head Maintenance Module
Media Feeding Device
Ink Supply System

Proprietary VDS (Variable Droplet Size) control technology integrating the print head control of multi-level size droplets with the ColorPRINT RIP software creates sharp images with smooth gradations and vivid colors.

Expand your business with broad versatility and great flexibility

Broad media compatibility increases flexibility for your business. The LR54 full color inkjet web press offers a web width range from 60mm to 120mm and print width up to 54mm. It enables to print on a wide range of media up to 0.4 mm thick. Supported media includes Self-adhesive label stock, PP, PE and PET, coated paper, cast coated paper, uncoated paper, fabric ribbon, etc..

Versatile Ink Systems satisfy different application requirements. UV ink system or water-based ink system can be configured depending on media and substrates. UV curable inks have advantages of excellent hardness and durability for weather, scratch, chemical, and water resistance. They can be printed on a wide range of coated or uncoated substrates especially heat-sensitive substrates such as PE. The earth-friendly water-based inks can be printed on a wide range of standard uncoated offset media and inkjet-optimized coated media, especially printed on fabric ribbons/ lanyards for decoration.

Ribbons printed on LR54

CMYK plus White, Varnish or Primer ink create versatility to print on more types of media with attractive visual effects. With White ink, Under-Printing and Over-Printing are available to extend the range of application on clear films for "no-label look" labels, as well as metallic substrates frequently used in the cosmetic and medical markets. Optional varnish ink provides a variety of surface finishes. The overall label can be covered with a gloss or matte finish; or glossy or matte spot varnish can be added to some specified appealing parts. With primer being added, we can print directly on more untreated substrates and achieve better adhesion.

Label with a gloss finish

Label with a matte finish

Labels printed on LR54

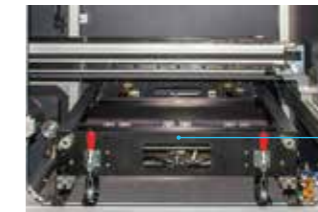## Achieve exceptional color productivity and cost-effective performance

Meet tight schedules with fast print speed and low cost. LR54 enables high-speed single-pass printing up to 100m (328 ft) per minute at 600x300dpi, and up to 75m (246ft) per minute at 600x600dpi. The high-performance inkjet web press delivers quick turnaround cycle with minimal setup time and no need for films, plates and screens. It also reduces the consumables costs with less media and ink.

Tailor efficient media drying device for your needs. UV LED curing system or NIR drying module can be configured according to the drying requirements of UV ink or water-based ink for high-quality and high-speed printing.

Gain convenient maintenance and cost-effective performance. A station with Automatic Print Head Maintenance Module is designed to maximize performance and decrease maintenance expenses. Before or after printing, the Print Head Module stays at the maintenance station for automatic purging, wiping and capping. For printing, it will move out from the maintenance station to the printing position.

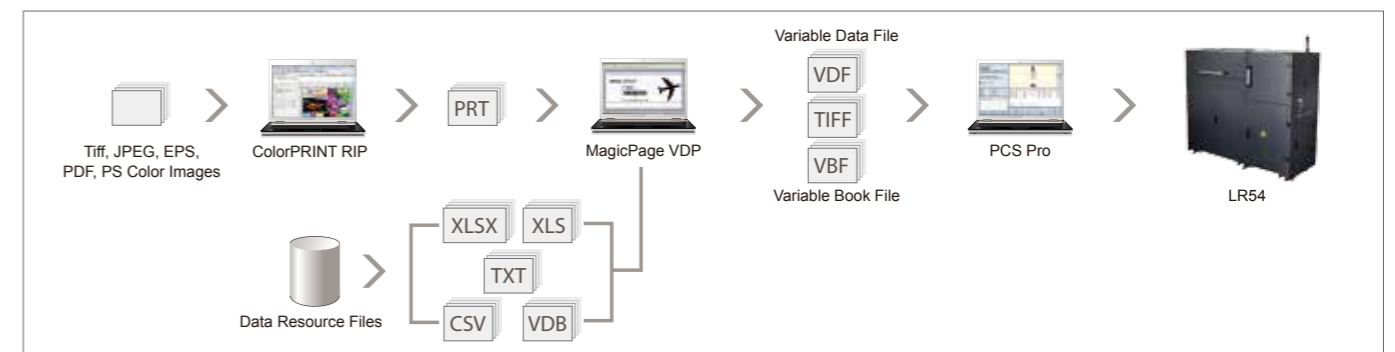Print Head Module at the Printing Position

Print Head Maintenance Station

Automatic Print Head Maintenance Module

EFFICIENT WORKFLOW

As a full color single-pass inkjet printer, LR54 integrates multiple advanced technologies, from color management, RIP, content collaboration, to output production. The efficient and streamlined workflow enables users to achieve high-speed, accurate, and vivid color variable data printing.

Tiff, JPEG, EPS, PDF, PS Color Images

ColorPRINT RIP

PRT

MagicPage VDP

Variable Data File
VDF
TIFF
VBF
Variable Book File

PCS Pro

LR54

Data Resource Files

XLSX XLS
TXT
CSV VDB

ColorPRINT RIP Software

MagicPage VDP Software

PCS Pro

LR54 supports various fonts and barcodes:
● Single-line, multi-line, numeric codes, time, and serial numbers
● Character, True Type, and Type-1
● 1-D Barcodes include EAN-13, EAN-8, Code 39, Code 128, Codabar, GS1 DataBar-14, IATA 2 of 5, Interleaved 2 of 5, JAN-13, UPC-A, and POSTNET
● 2-D Barcodes include PDF417 and QR Code

Jan13   QR Code   PDF417

Code 39