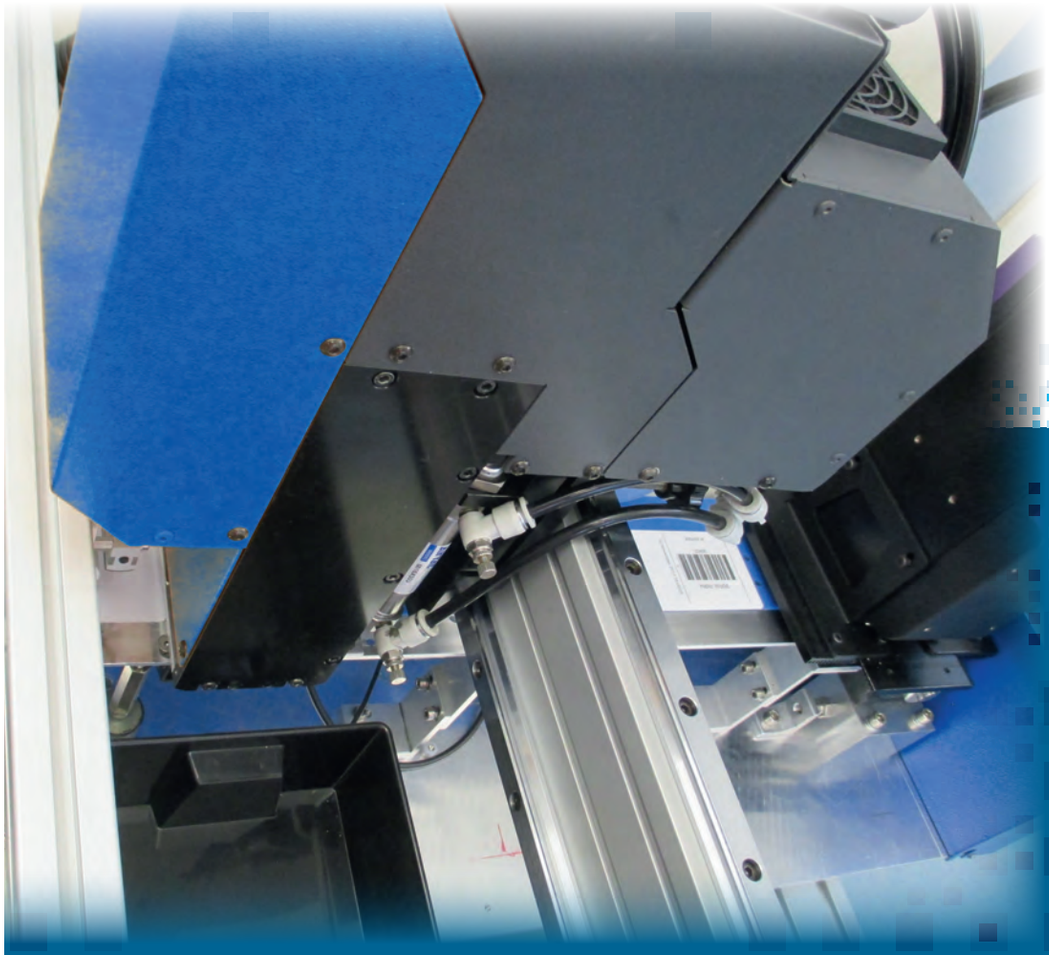
Rapid piezoelectric DOD printer with LED UV curing system

rinas



DOD

CMYK Colour/Monochrome

DOD Print Module Accessory for ID-1 Medium

OEM
ANALYSIS / QA
PRODUCTION
DESKTOP
ACCESSORIES

RINAS DOD

RINAS DOD – RAPID COLOUR/MONOCHROME ID-1 DOD PRINT MODULE WITH UV CURING

The Rinas thermal drop-on-demand (DOD) variable data CMYK colour/monochrome printing system utilizes state-of-the-art piezoelectric technology and forms an important print accessory to the Rinas range of MagStripe, RFID and Smart Card encoding solutions. The speed at which a plastic card or paper ticket is transported under the print head can be altered to suit the operational environment, which also governs the UV exposure time.

Operational highlights for economical production

The colour/monochrome thermal DOD printer unit is available with a choice of ink types to match the ID-1 paper or plastic medium. Typically black[1.)] ink is used for final personalization giving perfect reproduction of all printed elements, including images, barcodes, logos and fonts etc. with a durable slightly raised structure comprising crisp defining edges without any additional overlay*. Comprehensive software handles all aspects of layout design and data handling for extremely economical and intuitive personalization tasks.

Incorporated in the package are a range of functions that include an alarm for ink shortage, numerous fonts, 1D and 2D codes, graphics integration and a label creation software utility. Built into the head unit are heater elements that stabilise the fluid temperature which, when combined with the product's unique ink channel design, provide a constant ink supply to all nozzles. Blockages and unnecessary downtimes are thereby minimized.

Intelligent personalization solutions with durable printing

The printer is an ideal extension to the Rinas CS-LWR and CS-SWR universal encoders which, due to their modular design, comprising various elements with their own intelligence (µC), enable specially adapted encoder configurations to be effortlessly assembled to meet specific customer requirements. The majority of the individual modules share a common, internal communication bus and there is just one interface (USB) to the control PC. The printer communicates with the control PC via the TCP/IP port. A print verification station comprising a downstream scanner is also possible.

*We recommend printing on test samples beforehand to ensure compatibility and durability.

Print Unit

Features
- Borderless ID-1 printing
- Head power management
- Head temperature control
- Durable construction
- Auto. ink shortage alarm
- LED UV curing system
- Economical

Print Characteristics
- 1D/2D codes
- Built-in fonts
- Graphical output
- Print resolution:
  Typ.: 600 x 600 dpi
  Max.: 600 x 1,200 dpi
- Unicode character set
- Print width: 54 mm

Card Parameters
- All colours
- Transparent cards
- Embossed cards (on request)
- Thickness: Adjustable
- PVC, ABS, PET, Paper

Operational Parameters

Throughput Volume
- ≤ 15,000 cph

Ink Volume
- 1 Litre ink reservoir (per colour)

Power Supplies
- Auto-switching 50/60 Hz 110/230 VAC/2A
- 24 VDC/2A

Print Head Lifetime
- 3 to 5 years [2.)]

Control
- 1x TCP/IP interface
- 1x RS232 serial interface

Weight
- Approx. 9 kg

Unit Dimensions (mm)
- L/W/H: 620/670/770

Ambient Conditions
- Temperature: 15°C to 30°C
- Humidity: 25% to 75% (non-condensing)

1.) An additional print head is necessary if white ink is required.

2.) The print head lifetime is estimated at between 3 and 5 years when using our recommended spare parts, approved inks and performing regular maintenance.

rinas
Rinas Gerätetechnik GmbH / Aftholderberg / Wiesenstraße 7 / D-88634 Herdwangen-Schönach
Telephone +49 (0) 7552 40 588-0 / Telefax +49 (0) 7552 40 588-20 / info@rinas.com / www.rinas.com