tidirefi
PRINTERS, INKS & SPARE PARTS

DATA SHEET

TIJ PRINTER WITH TOTAL IP PROTECTION

K140NIP

240 m/min
max. speed

600 DPI
resolution

25.4 mm
max. print height

IP65
protection level

Suitable for any type of environment (whether wet, dusty, corrosive...).



About the product

- **Industrial printhead**, no maintenance required.
- Printing of **fixed and variable data.**
- **Calculate printing costs** in real time.
- **ERP connection.**
- **Light beacon signal.**
- Printing speed up to **240 m/min.**
- **Wireless keyboard and mouse** control.
- Suitable for international **GS1 standards.**
- **Printhead:** from 1 mm to 12.7 mm, 1 head; from 1 mm to 25.4 mm, 2 heads.
- **Easy to use:** 7" touchscreen with intuitive interface for easy configuration.
- **The only manufacturer to offer a 2-year extended warranty.**



Printer equipped with surge, cross-talk and harmonic filters



Solid-state electronic boards, military-grade resistance

TIDIREFI SLU C/ Majuelo 5, Pol. Ind. Cantabria I · 26009 Logroño (La Rioja), Spain
+34 941 265 066 · info@tidirefi.com · www.tidirefi.com

Industrial hardware

The use of American TI's AM3358 industrial grade CPU and Xilinx Spartan6 industrial grade FPGA provides a more stable, reliable and anti-interference system in several working conditions, making the printing experience unique.

The print engine uses a dedicated TIJ ASIC chip, a perfect match for a variety of original and licensed HP inks.

Professional cartridge pre-heating algorithm guarantees optimal print quality in extreme environments or places with high and low temperature.

More powerful software

The integrated Linux operating system provides a professional and user-friendly interface.

Powerful integrated ink consumption algorithm allows fast cost-per-print calculation.

Powerful variable 2D code functions to meet today's growing customer demand, also under GS1 standards.

Efficient and flexible variable database functions to meet the requirements of various applications for product traceability, it incorporates ERP connectivity.

IP65 protection

IP65 protection level, watertight, dustproof and low pressure water jet proof.

Printhead and controller are fully protected, ready for the most hostile environments.

The slanted design of the operating display makes it easy to view and operate and prevents droplet accumulation.

Suitable for the most aggressive and several environments.

Construction

Printhead incorporates a flip-type protective cover structure, which makes cartridge replacement easy.

High strength stainless steel housing, rust and corrosion resistance.

Several configurations are possible: one printhead, two independent printheads or two printheads stitched together.

Printhead features

Distance	From 2 mm to 5 mm
Speed	120 m/min at 300 DPI
Resolution	150 DPI / 300 DPI / 600 DPI
Head	Thermal head TIJ 2.5
Print height	From 1 mm to 25.4 mm
Ink type	Solvent, water-based, UV. 42 ml cartridge
Ink colour	Black, white, red, yellow, blue, green, invisible UV
Cartridge chip	Contactless RFID chips allow automatic recognition and control of parameters and ink consumption
Substrates	Cardboard, plastic, metal, wood, ceramics, food industry, chemical and pharmaceutical industry, glass, etc.
Print	Multi-language texts, bar codes, 2D codes, images, numbers, counters, dates, variable fields



Printer features

Structure	Industrial stainless steel
Operating system	Linux operating system
Com ports	USB / RJ-45 to RS232
Environment	Temperature: 0-45 °C / Humidity: up to 85 %
Hardware	American TI AM3358 industrial grade CPU / USA Xilinx Spartan6 industrial grade FPGA / TIJ dedicated ASIC chip
Languages	Spanish, Italian, French, Finnish, German, Norwegian, Portuguese, Japanese
Interfaces	Photocell, encoder, external control, inverse-reverse, alarm output, external data selection, BCD, ERP
Power supply	Input: AC 100-240 V 50-60 Hz / Output: DC 24 V 6.5 A
Dimensions	Controller: 384.5 mm x 317 mm x 183 mm / Printhead: 173 mm x 107 mm x 94 mm

Marking examples



Packing cardboard



Medicine



Furniture and wood



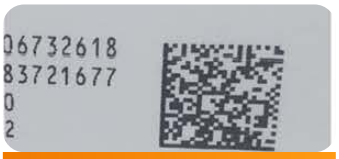
Food packaging



PET plastic



Security UV ink



Dynamic trace QR code