

# SJ-2

Smart Jet TIJ Printing Solutions

## Simple, Trust Worthy and Excellent Value for Money



## Coding Excellence

7.0 inches color touch screen giving a larger industrial experience. Simple WYSIWYG editing operations.

Complete external hardware interface such as Network remote centralized management, USB, Serial Port, Alarm, Information Control, etc.

Print speed 120 meters per minute (300DPI); 60 meters per minute (600DPI); Speeds up to 406 meters per minute (90DPI).

American TI Company AM3358 industrial grade high performance CPU and American Xilinx Corporation spartan6 industrial high speed operational FPGA.

Print engine uses TIJ dedicated ASIC chipset for industrial grade TIJ inkjet printer. PCB adopts anti-interference industrial grade solid-state electronic components SMT manufacturing process.

Dustproof, moisture proof and corrosion resistant industrial grade protective housing offering higher protection to ESD interference.

It can be seamlessly spliced using two print heads or independently installed with dual separate print heads.

1-6 gray scale adjustable to add black inkjet effect. Useful algorithm for ink drop consumption embedded in the system instantly calculates the cost of printing for the customer.

Scanner input, wireless keyboard and mouse control, multi-level security menu supporting for more than 40 multi-language

Production line alarm light control.

The cartridge is snap-fitted for simple and reliable refill & maintenance.

GS1 Data Matrix

Multiple optional brackets, different mounting methods. Supporting large capacity consumables and ink bag connecting system. Convenient for butt-joint packaging machine, paging machine and conveyor. Supporting OEM brand and functional personal customization.

# Excellent Value



## ◆ Professional

The print engine uses TIJ dedicated ASIC chips, a perfect match for a variety of original and licensed HP ink  
Professional cartridge preheat algorithm to ensure optimum print quality at high and low temperature environments

## ◆ Practical

Powerful variable function of two-dimensional code, two-dimensional code applications to meet customer demand  
Efficient and flexible variable database functions to meet various application requirements for coding & marking traceability

## ◆ Reliable

The United States TI's AM3358 industrial-grade CPU, Xilinx Company Spant6 industrial-grade FPGA In difficult industrial applications of varying conditions offers stable reliable long-lasting service

## ◆ Smarter

Intelligent embedded Linux operating system, provide professional and more user-friendly interface  
Embedded powerful specific drop consumption algorithms that instantly calculates printing costs for the customer

## ◆ Return on Investment

Updates & Backups quick and easy, free firmware upgrade with the standard USB Port keeps you printer up to date as well as facilitating your backup files.

## Technical Specifications

### Print Head Parameters

Print Head Type	Thermal Inkjet Head TIJ2.5
Printing Accuracy	Resolution up to 600 x 600 DPI (vertical: 100DPI, 150DPI, 300DPI, 600DPI landscape: 30-600DPI precision Nozzle adjustment) Adjustable print grayscale 1-6
Printing Speed	406 m / 90 DPI, 304 m / 120 DPI, 240 m / 150 DPI, 120 m / 300 DPI, 60 m / 600 DPI (multi-group variable data ultra-high speed response printing)
Print Height	Minimum print height 1mm / single print head maximum printing height 12.7mm / double print head maximum printing height 25.4mm The Ideal distance between the nozzle and the printing surface is 1-2mm
Printing Distance	Optimal printing distance 2-5mm
Printed Content	Multi-language character / GSI dynamic two dimensional code / trace QR Code / Data Matrix / barcode / graphics / serial number / date / shift / counter / variable dynamic database / network RS232 serial port receive real-time dynamic data printing
Printing Material	Cardboard / plastic / metal / plate / pipe / stone / cable / electronic components / auto parts / industrial chemical packaging / pharmaceutical / food & beverage / gift boxes
Ink Type	Water Based / Solvent Based 42ml ink cartridge and ink supply system CISS
Ink Color	Multicolor Black, White, Blue, Yellow, Red , Green , UV Invisible
Cartridge Chip	Contactless chip RFID tags, automatic identification and recording of the remaining ink

### Controller Specifications

Operating System	Embedded Linux operating system
Main Hardware	American TI AM3358 CPU / US Xilinx Spant6 Industrial grade FPGA / TIJ dedicated ASIC chip
Comm. Interface	Network Interface / USB / RS232
External Interface	TIJ Communication Interface USB, RS232, TCP/IP network interface (support network remote centralized control management / docking weighing machine / conveyor Optical eye / device / tipping control / alarm out / serial number out / external pager / packaging machine / ERP database / drug monitoring code number reset / external serial number update / partial printing information external serial
Supported Languages	Multi-language Over 40 (Chinese / English / Arabic / Danish / German / Russian / French / Finnish / Korean /Norwegian/ Portuguese / Japanese / Spanish / Italian etc....)
Power Parameter	Input 100-240V AC / 30V 4A DC Output
Machine Materials	Industrial standard protective body (aviation grade aluminum / industrial grade stainless steel)
Machine Spec	Controller 202mm x 119mm x 61,2mm / Print Head 112 mm x 79 mm x 103 mm
Working Environment	Temperature 0-45°C / Humidity 30-70%Rh

## Details



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