# MGT-JDP-i800

# i800

## Features



**1**

### Inkjetted Circuit

Provide nano silver conductive ink, mask ink, etc.



Drain
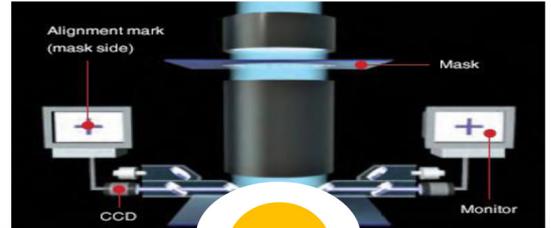Source
Semiconductor
Bank
Gate
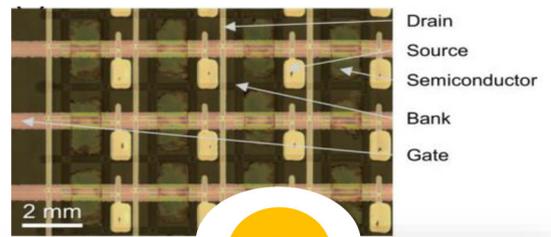
**2**

### Inkjetted Devices

Preparation of devices based on various electronic inks



**3**

### Multi inkjet Head

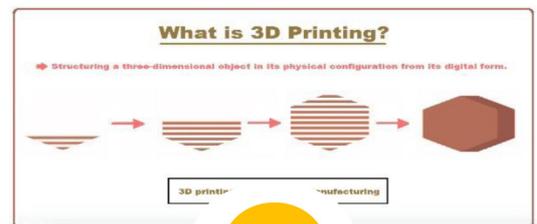Support multi-material inkjet patterned deposition



Alignment mark (mask side) | Mask
CCD | Monitor

**4**

### Visual CCD Alignment

Visual CCD alignment, double-sided alignment printing, etc.



Altium
Reverse Engineering a
**PCB from Gerber Files**

**5**

### Support Gerber file

Support TIF format and Gerber format file



**What is 3D Printing?**

➤ Structuring a three-dimensional object in its physical configuration from its digital form.

3D printing ... nufacturing
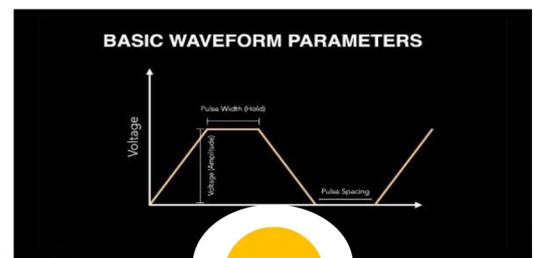
**6**

### 3D Slice file

Supports slicing files , Stl/3mf/obj/3ds slicing tools
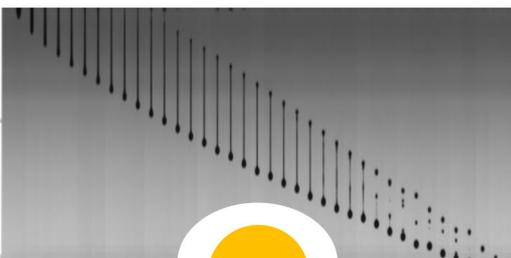


**7**

### Small Droplets

3pl small droplets, accurate ink droplet placement



**BASIC WAVEFORM PARAMETERS**

Voltage

Pulse Width (Hold)

Voltage (Amplitude)

Pulse Spacing

**8**

### Open Waveform tool

waveform tools to adjust the waveform according to inks
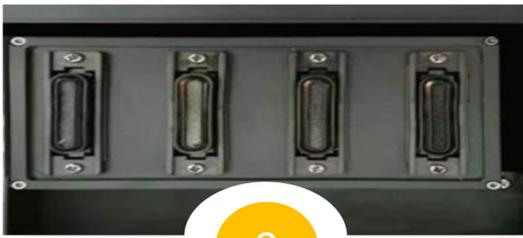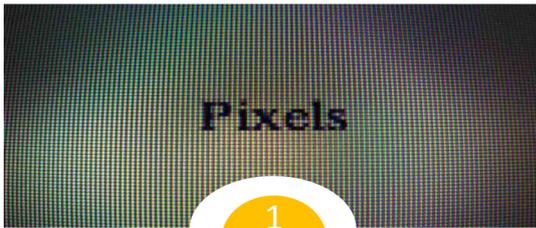
**9**

### Independent ink pads

Independent ink pad to prevent contact contamination

**10**

### Printhead compatible

Good compatibility to water-based, oil-based, UV and solvent inks.

**11**

### High Resolution

Supports 1200DPI and 2400DPI, the smallest ink dot is about 50 microns

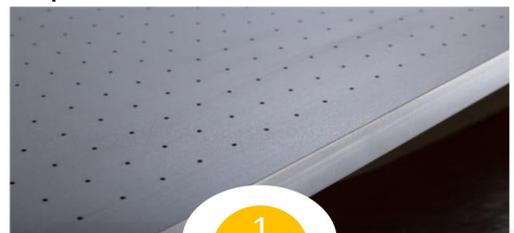**12**

### Self-developed ink

Support self-developed various functional ink tests, open ink channels

**13**

### Variety of Printhead

Available in economical printhead and built-in heated printhead

**14**

### Functional platform

Heated vacuum platform, high temperature heating

**15**

### Line Trimming

Line trimmed to compensate for the wetting and spreading of droplets.

**16**

### UV light curing

UV curing for real-time curing of photosensitive functional resin ink.

# MGT-JDP-i800

## Circuits Inkjet Printer

**Mogreat** 崇材电子

## Features

- Inkjet head: 2, (up to 4)
- Inkjet cap: 4 (separated)
- Small drop: 3pl
- Ink type: aqueous, solvent, UV
- Piezo waveform software: available
- Thinner trim function balances ink spread
- Vacuum adsorption and heatable platform

## Inks and Option

- Conductive ink
- Etch-resist UV ink
- Dielectric UV ink
- Support self-developed ink

## Applications

Applications include printed electronics, flexible electronics, organic electronics, and bioelectronics. It can be used to print and manufacture various microelectronic circuits, radio frequency antennas, 5G antennas, sensors, electric heating electrodes, etc., and can print and test OLED inks, TFE inks and quantum dot inks for touch screens and OLED/QLED lighting display fields.

## Tech data

| Item | Content |
|------|---------|
| Motion axis | 3, (X, Y, Z) |
| Platform | Vacuum adsorption, heated |
| Inkjet size | 297mm*210mm |
| Inkjet Height | 0~10mm |
| Accuracy | ±0.01mm |
| Inkjet head | 2, (up to 4) |
| Drop volume | 3.0pl |
| Ink type | Aqueous, solvent, UV |
| Inkjet lines | 0.075mm ~0.1mm |
| Ink supply system | 4 negative pressure ink supply systems |
| Ink caps | 4 separated caps |
| File type | Gerber , ODB++*,1 bit TIF |
| Resolution | 1200*1200 、2400*2400 |
| Curing light | 365nm UV |
| Power | 220V / 50Hz，1.5kw |
| Dimensions | Length ×Width×Height：960mm×709mm×618mm |
| Equipment working conditions | Temperature Celsius: +20℃ ~+30℃ Relative humidity 40% ~60% |

*Gerber, ODB++ format provides RIP software

## Conductive ink（MGT-IJP-INK3050）
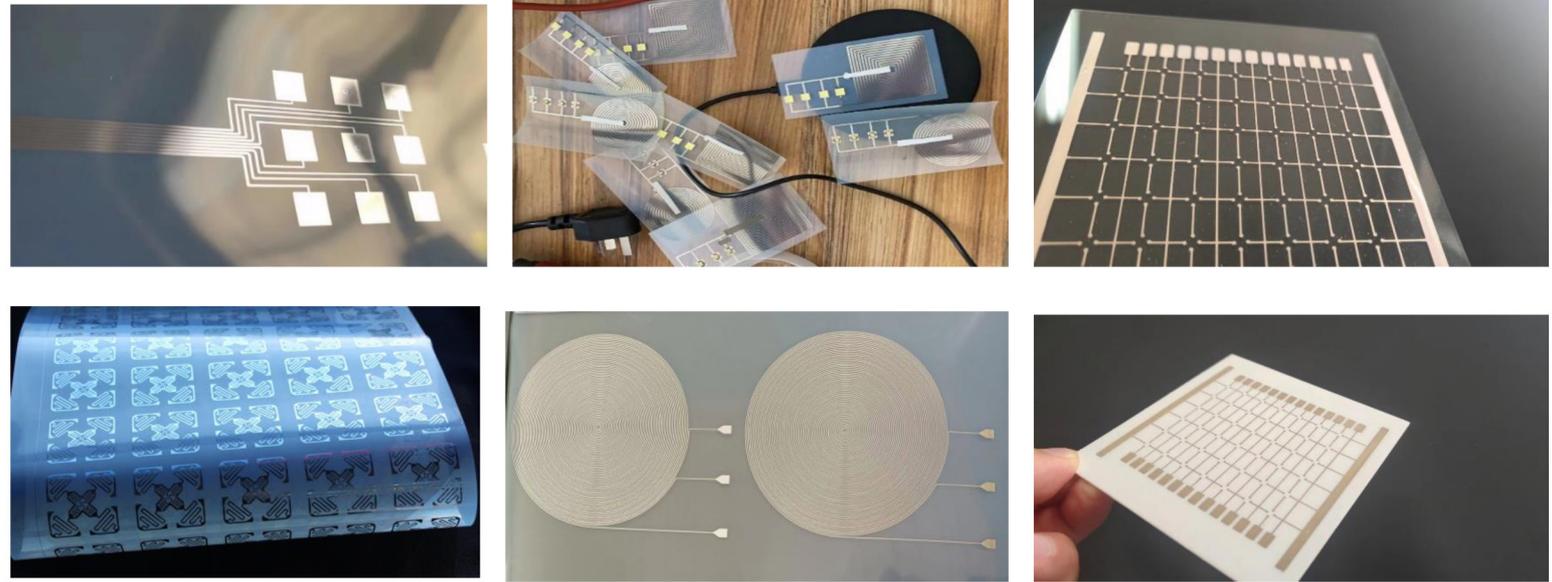


## Device Inkjet Preparation Solution
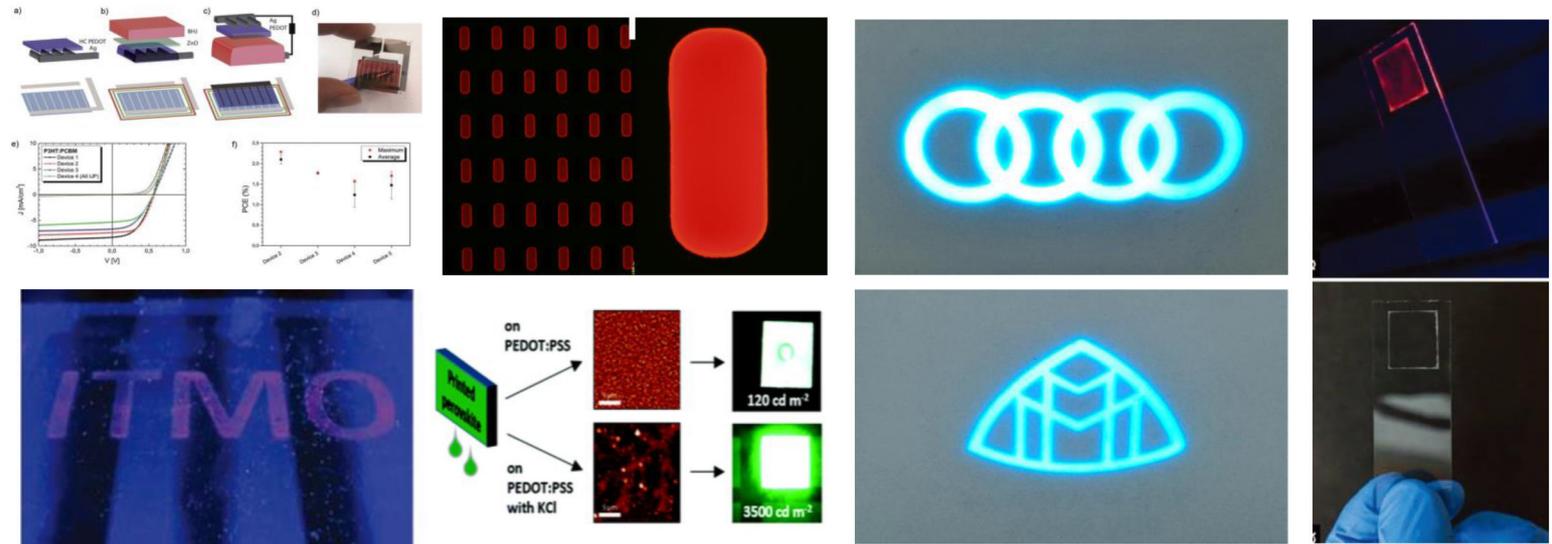


## Etch-resist UV ink（MGT-UVI-ER103）and 3D Dielectric ink（MGT-IST-UV70）