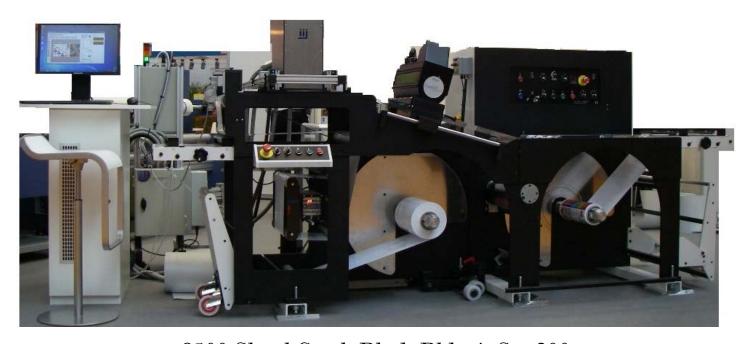


We Deliver Innovation

# PRINTED ELECTRONICS



8500 Shoal Creek Blvd, Bldg 4, Ste 200 Austin, TX 78757

Tel: (512) 996-8833 x 302

Fax: (512) 873-7744

www.omegaoptics.com



#### PRINTED ELECTRONICS – CUSTOM SOLUTIONS

- We offer customized solutions for complete ink-jet print systems.
- Our print systems can be easily customized to fit customer's needs.

# **Hardware/System Specifications**

#### **Printheads and Ink Systems:**

- Single material
- 256, 512, 1024, and 1800 nozzles
- 360dpi native resolution
- Suitable for use with high viscosity, aqueous, solvents and UV inks
- Heater option available
- Ink systems with/without degassing units\*
- Ink supply systems for up to 100+ printheads\*
- Range of control electronics and software solutions\*\*

#### **Print Engines:**

- Printhead unit slides out for simple, rapid and easy cleaning. Slides and cleaning tray included.
- Ink and electronics cabinets can be mounted with in the customer's production equipment.
- An alternative stand-alone trolley is available.
- Ink supply bottles can be changed without stopping print.
- Customised versions available different print speeds, print widths, and print resolution.
- Solution for multi-stage single pass systems available\*
- Please contact us and we will be happy to talk to you regarding your requirements



<sup>\*</sup> please contact our sales department at <a href="mailto:sales@omegaoptics.com">sales@omegaoptics.com</a> to check for availability

<sup>\*\*</sup> selection available based on customer requirements. Please contact sales department for details



#### PRINTED ELECTRONICS – CUSTOM SOLUTIONS

Various print widths available. Please refer to the table below for details \*

	MonoPrint 72	MonoPrint 142	MonoPrint 282 Slim	MonoPrint 352 Slim
Print Width	72mm	142mm	282mm	352mm
No. of Printheads	1	2	4	5
Printhead enclosure dimensions (incl. header tanks).	98mm wide in direction of substrate travel x 220mm deep x 354mm high.	184mm wide in direction of substrate travel x 250mm deep x 363mm high.	137mm wide in direction of substrate travel x 487mm deep x 586mm high.	137mm wide in direction of substrate travel x 557mm deep x 588mm high.
Other dimensions	Head Drive: 400 High x 400wide x 210mm deep. Weight = 10 kg Ink Control: 430 High x 320wide x 185mm deep. Weight = 9 kg (548mm incl. beacon) Ink Fluids: 400 High x 400wide x 210mm deep. Weight = 12 kg (no fluids ) 4 x flexible conduits (connecting printheads control and ink supply): 35mm diameter x 3m long (4m for CP352). Custom conduit lengths available to order.			
Colour	Monochrome			
Resolution	360dpi Binary or Grey-scale			

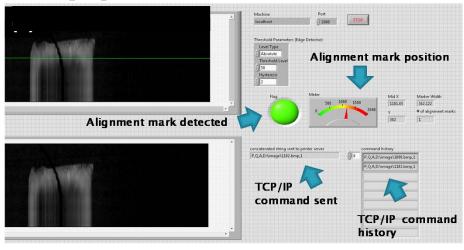
#### **Control Electronics:**

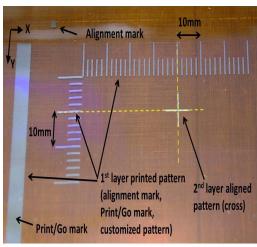
- •Control electronics for print heads and engines provided by partners IIJ and Global Inkjet Systems.
- •We can customize solutions compatible with other third-party software used by the customer

# **Software Specifications**

#### In-line registration ‡:

- •We also provide in-line registration.
- •<100 $\mu$ m alignment accuracy @ 3m/min between multiple prints





- \* please contact our sales department at <a href="mailto:sales@omegaoptics.com">sales@omegaoptics.com</a> to check for availability
- ‡ optional additional fee may apply



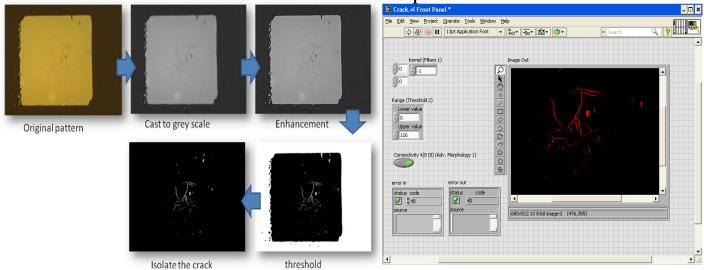
## **PRINTED ELECTRONICS – CUSTOM SOLUTIONS**



### **Defect Identification ‡**:

•Detect and notify user of defects in the print

•Customizable based on customer needs and specifications



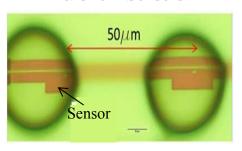
# **Print Services**

- •We also help with design, prototype building and testing, and packaging of custom designs based on customer needs\*.
- •Please talk to us to see if we can serve your design needs\*.
- •Small to medium volume orders processed by us. Large volume

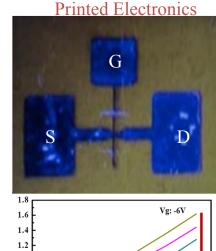
manufacturing available through our partners.

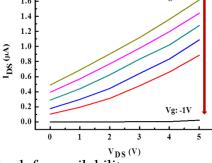


Bio/Chem Sensors









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- ‡ optional additional fee may apply