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## UC Berkeley EECS have selected CERADROP CeraPrinter X-Serie multi-materials inkjet precision platform



Vivek Subramanian

Professor, EECS

Department of Electrical Engineering and Computer Sciences (EECS) at University of California, Berkeley

Ceradrop MGI Group announces equipment vendor collaborations with UC Berkeley College of Engineering, Electrical Engineering and Computer Sciences (EECS) with a state-of-the art newly remodel clean room lab facility on campus. Working closely with both Ceradrop French based and local equipment and process teams, the goal will be to enable new printing electronics equipment integrations, advance software features, and new printing capabilities going forward much like the mature semiconductor fabrications infrastructures of proven process optimization and solutions methodologies.



Professor Vivek Subramanian and his Printed Electronics Group said “**recently we have an opportunity to upgrade our own in-house research inkjet system and after extensive evaluation and careful considerations, we’ve selected the advance [X-Series CeraPrinter](#) and software solutions suite from Ceradrop**”

“This is an important demonstration resource facility now made available to Ceradrop MGI Group and our customers. Going forward, with the support of both Professor Vivek Subramania and Professor Anna Claudia Aria UC Berkeley research groups and are recognized leaders in their respective research work in physics and technology of organic semiconductors and their applications in displays, low cost electronics sensors, and actuator. It is the right needed resources for the inkjet printing electronics industry” Tim Luong, National Sales Manager for Ceradrop MGI Group.

### **About CeraPrinter equipment:**

CeraPrinter equipment is a powerful tool allows to reach all types of materials deposition Inkjet processes in Printed Electronics and Smart 3D Printing. It provides high level of resolution thanks to its dynamic accuracy calibrated on the nozzle of +/- 3µm and repeatability < 1µm, whatever chosen deposition speed and printing direction.

Moreover, as no manufacturer of printheads can now provide a panel of optimal heads for all inks used in Printed Electronics, the CeraPrinter equipment offers possibility to its users to work without compromise and use the most appropriate printheads of the market for each material they wish to apply (Konica Minolta, Dimatix... etc.). A large panel of heads is available from low cost cartridge to industrial printhead, with a drop volume from 1 pL up to 150 pL, number of nozzles from 16 up to several thousands, permits to apply a great variety of inks (UV, solvent, aqueous, oil, aggressive fluid). The patented system of the head-holder "plug and play" with automatic motorized rotation allows embedding simultaneously many printheads that can be quickly changed with accuracy in each of the slots of the head-holder. This head-holder is designed to advance and integrate any future printhead of the market dedicated to Printed Electronics.

In addition, CeraPrinter equipment can integrate several post processes in-line (IR, UV, NIR, photonics...etc.), in order to become a process tool "all in one" for full process development dedicated to Printed Electronics and Smart 3D Printing.

CeraPrinter X-Serie is a high accuracy advanced materials deposition inkjet printer embedding several post-process technologies is the best all-in-one product of the market to understand all behaviors from inks formulation to final cured electronic components and to qualify small batches production,

### **About UC Berkeley EECS:**



The UC Berkeley Department of Electrical Engineering and Computer Sciences (EECS) recently completed a new cleanroom lab at Cory Hall focused on advanced printed electronics and solution processing technologies. The EECS Department has over 120 affiliated faculty members, close to 2000 undergraduate students, and over 500 graduate students, and is the largest department at "Cal." The distinction of the EECS faculty is evident from a long list of prestigious awards which recognize outstanding contributions in research and teaching. UC Berkeley undergraduate and graduate programs consistently rank in

the top three nationwide in Electrical/Electronic/Communications Engineering, in Computer Engineering, and in Computer Science, attracting top researchers and students from around the world. The hallmarks of UC Berkeley success are a strong tradition of collaboration across disciplinary and organizational boundaries, dedication to education and outreach, close ties to industry, and a supportive culture.

### **About CERADROP MGI GROUP:**

The MGI Group is composed of MGI Digital Graphic Technology, headquartered in Ivry-sur-Seine, France, CERADROP, located in Limoges, France and KORA-PACKMAT, located in Villingendorf, Germany.

Founded in 1982, MGI Digital Graphic Technology designs, manufactures and markets a full and innovative range of award-winning digital presses and a complete line of versatile finishing solutions.

CERADROP designs and markets Materials Deposition Inkjet Printers exclusively for Printed Electronics Industry and Smart 3D Printing. Embedding all types of printheads as well as the latest generation of curing modules, CeraPrinter Series models present new opportunities for feasibility study and launch of new products onto the Printed Electronics market in the fields such as: flexible solar cells (OPV), OLED Displays, Smart Cards, Antennas, Smart Systems, Passive Components and others.

As the subsidiary of MGI Group focused on Printed Electronics and Smart 3D Printing, CERADROP can call up more than 60 engineers specialized in inkjet engine, mechanics, automation, software, chemistry, and ink management to supply the best materials deposition inkjet printing solution for advanced R&D or 24/7 high performance manufacturing. Moreover, CERADROP is supported by the MGI Group network in 70 countries with 50 representatives.

#### **Worldwide Sales Office:**

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