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## **Large Area Processing PECVD System**

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### **Abstract**

In order to address to the fast-growing LCD TV market, AKT has developed AKT-50K PECVD system for handling 2160x2460 mm<sup>2</sup> class substrate and shipped its first system in spring 2006. Since the introduction of the first PECVD system for Gen. 2 in 1993, AKT has successfully developed multiple generations of PECVD systems for volume production. In order to contribute to the growth of the LCD TV market, cost containment and performance improvement are key challenges for equipment makers. This paper discusses various challenges and AKT's solutions in developing large size PECVD equipment beyond Gen. 8 for TFT-LCD TV manufacturing and brief introduction of its Electron Beam Array Test (EBT) system.