

# The Evolution of Display World, The Present and The Future

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## Abstract

Recently, information equipments (ex. cellular phones, PDAs) have an impact on the business field, with the development of information-network technologies such as internet, wireless communication, high-speed CPU, large capacity of memory and so on.

Looking at the other areas, new wave of information network are also surging our society, where homes, cars, education and so forth, and it will cause a drastic change in life style.

Such a revolution of society will make the liquid-crystal display much worth than ever as a key component of novel products, because of the advantages of lighter weight, weight, thinner thickness, low-power consumption and excellent legibility. Especially, TFT-LCDs have been playing this important role, corresponding to the circumstances, and the performances of the LCDs have been remarkably improved with the spiral-up of core devices and applications, in recent years.

This paper will describe such advances of TFT-LCDs in terms of display quality, resolution, size, power consumption and added values. It will also discuss the future prospects of TFT-LCDs reflecting several applications.

## Biography

Masaya Hijikigawa is a Corporate Executive Director & Group General Manager of the Display Technology Development Group at Sharp Corp. He joined Sharp in 1969. Since then, he has made significant contributions to the development of TFT color LCDs and has shown leadership in establishing the technology for mass production. In 1995, Mr. Hijikigawa received an Achievement Award from the Japanese Liquid Crystal Society

Yutaka Ishii is a Division General Manager of the Display Technology Development Group at Sharp Corp. He joined Sharp in 1979. Since then, he has working in the field of liquid-crystal displays, especially the development of liquid-crystal devices and driving technologies. He received his Ph.D in liquid-crystal display from Tohoku University in 1979. He is a member of Japan Society of Applied Physics the Japanese Liquid Crystal Society and the Society for Information Display.