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Pict Leap Co., Ltd.

President, CEO: Norio Koma

Development of 32-inch Off-grid Outdoor Display System

Pict Leap Co., Ltd. (President, CEO: Norio Koma, Head office: Joetsu Niigata, Nippon Kayaku group, subsidiary of Polatechno Co., Ltd.) has developed 32-inch off-grid outdoor display system that is

- ① continuously displayable under the no power supply environment,
- ② excellent outdoor visibility.

Conventional large screen displays that LCDs (Liquid Crystal Displays) and OLEDs (Organic Light Emitting Diode) and others have high power consumption, and using them under the no power supply environment is almost impossible. And also there is an issue that conventional ones are not visible clearly during daytime of outdoor because of the bright environment.

Our company developed 32-inch off-grid outdoor display system comes with lighting for night, solar battery and the 32-inch high performance reflective LCD. The 32-inch high performance LCD adopted that joint developed high performance reflective liquid crystal technology [1][2] using achromatic polarizer by three members as Nippon Kayaku Co., Ltd., Polatechno Co., Ltd. and Tohoku University. This is a core technology of this system that can realize both super low power consumption and excellent outdoor visibility simultaneously.

This product is effective to display the information at the area of power grid undeveloped and at time of disaster. We have two type of the systems, landscape display system (Figure 2) and portrait display system (Figure 3). We just started the make-to-order manufacturing for both of them from February 2020.

[1] D.Fujiwara, N.Mochizuki, T.Ishinabe, D.Nakamura, N.Koma and H.Fujikake, IDW2013, FMCp2-13L (2013)

[2] N.Mochizuki, T.Ishinabe, D. Fujiwara, D.Nakamura, N.Koma and H.Fujikake, SID2014 Symposium Digest, pp.1431-1434(2014)

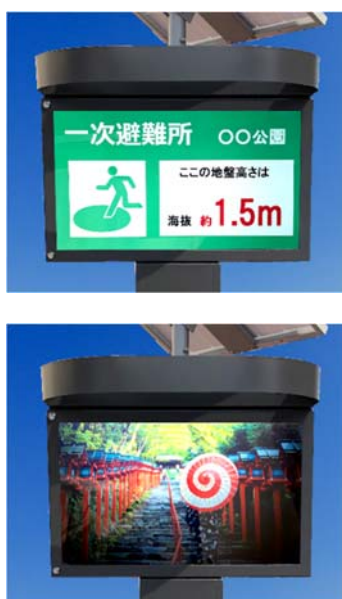


Figure 1 Display Images Under Sunlight



Figure 2 Landscape Display System



Figure 3 Portrait Display System

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