PRESS RELEASE

SMK Develops Direct Bonded LCD Module Offering Outstanding Visibility Even In Sunlight

SMK Corporation has developed a standard liquid crystal display (LCD) module “CapDuo Touch – Hunt” in which an LCD and a capacitive touch panel are directly bonded.

It features high visibility with 50% lower reflectance*[1], achieved by employing a high-brightness LCD, that displays clearly even under sunlight, with direct bonding technology*[2]. SMK is capable of doing direct bonding in-house, enabling integrated production and quality assurance.

The new module uses “CapDuo Touch” series, a touch panel consisting of a single sheet of glass with X and Y sensors on the front and back surfaces respectively. It allows for gloved hand operation and touch detection even while water droplets are on the panel. Also, its bridgeless structure brings a superior appearance.

It is suitable for a wide range of applications where high visibility and durability are required such as outdoor-use displays for motorcycles, ships and construction equipment.

*[1] Compared with SMK’s air-gap bonded conventional model

*[2] Direct bonding (optical bonding) is the process of adhering a touch panel directly to an LCD. Unlike the conventional air-gap bonding, this method eliminates the air gap in between and minimizes the reflection, thus contributing to an improved readability.

SMK Corporation
5-5 Togoshi 6 Chome, Shinagawa-Ku, Tokyo 142-8511, Japan
Phone: +81-3-3785-1111

【Applications】

Motorcycles, ships, construction equipment, and other displays for outdoor use.

Published Date	September 25th, 2019	
Press Release Number	1122SCI	
Product Name	LCD Module “CapDuo Touch – Hunt”	
Features	1) Clear visibility with less reflection even under sunlight. 2) High reliability product (Automotive grade). 3) Allows gloved hand operation and touch detection even with water droplets on the panel and used with a thick cover panel. 4) No rainbow effect or black screen phenomenon even while wearing polarized sunglasses.	
Major Specifications	Sensing System	Capacitive (Mutual-capacitive)
	Input Method	Finger
	Input Force	0 N
	Operating Temperature Range	-30°C to +85°C
	Storage Temperature Range	-40°C to +95°C
	Typical Transparency	90% minimum
	Reflectance	1.5%±1%
	Display Size	6.5 inches
	Number of Pixels of LCD	800 (RGB) W × 480 H WVGA
	Display Mode	Normally Black
	LCD Brightness	Typ. 1000cd/m^2
Start Taking Orders From	September 2019	
Goes Into Mass Production From	October 2019	

Production Capacity	50,000 units per month
Sample Price	Please contact us for pricing.
Inquiry	For more information, please contact SCI Division