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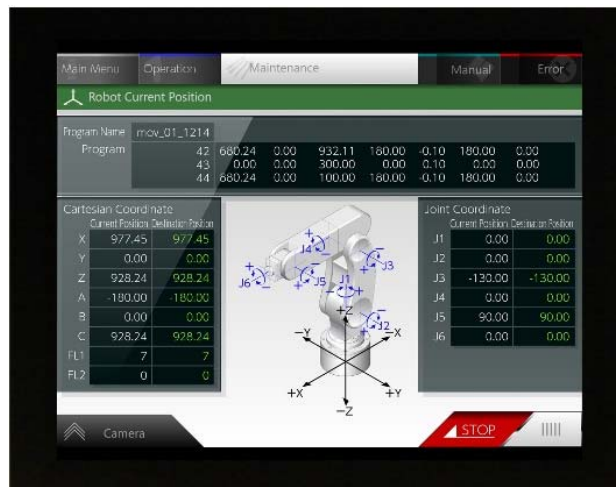
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Mitsubishi Electric's Color TFT-LCD Lineup to Add 19.0-inch Projected Capacitive Touch Panel for Industrial Applications

TOKYO, May 8, 2017 – [Mitsubishi Electric Corporation](http://www.mitsubishielectric.com) (TOKYO: 6503) announced today the launch of a 19.0-inch SXGA color TFT-LCD module, which is equipped with a projected capacitive touch panel utilizing a cover glass of up to 5 millimeters in thickness. Sample sales will begin on June 30 via Mitsubishi Electric offices worldwide. The new module will be presented at the 20th Embedded Systems Expo (ESEC Spring) at the Tokyo Big Sight exhibition complex from May 10 to 12.



Mitsubishi Electric color TFT-LCD module with projected capacitive touch panel
 AA190EB02-PCAP

The new module will meet increasing industrial demands for extra-thick or glove-operable cover glass. It also enables accurate, multi-touch sensing even when the screen is wet. The combination of these cutting-edge touch capabilities and Mitsubishi Electric's proven TFT-LCD technologies will support diverse applications and installations.

Product Features

1) Color TFT-LCD with large projected capacitive touch panel for diverse industrial applications

- 19.0-inch module is ideal for measurement systems, machine tools, gas station POSs and more

2) Projected capacitive touch panel offers superior operability

- Thick, 5-millimeter cover glass withstands rugged usage
- Ten-point touch operation for accurate sensing
- Highly operable even if screen is wet or user wears gloves

3) Total solution for touch panels

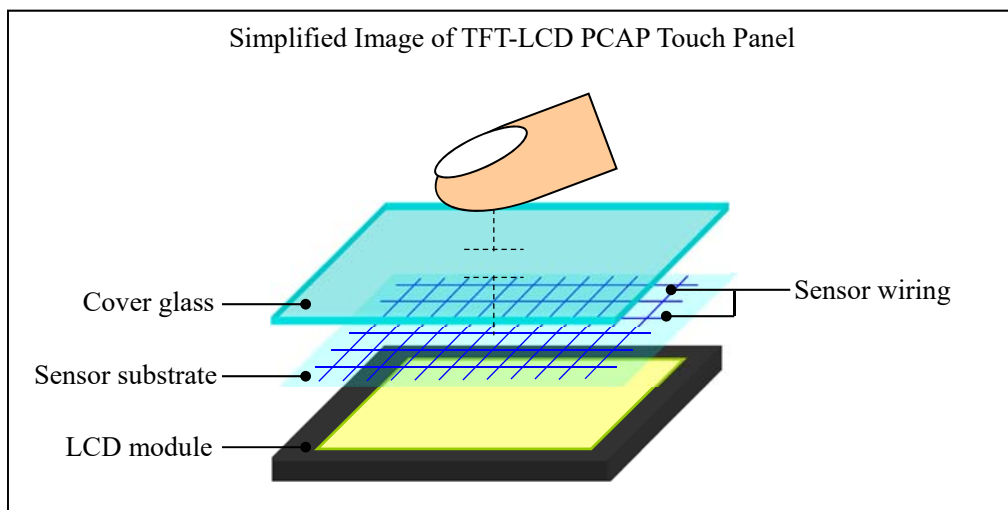
- One-stop solution for TFT-LCD touch panels and touch-control boards
- Optional optical-bonding solution with resin for TFT-LCD module, touch-panel sensor and cover glass ensure clear images in bright light
- Tempered cover glass and anti-reflection/anti-smudge surface treatment for diverse uses
- Factory-installed TFT-LCD, PCAP touch panel, cover glass and touch controller offer superior reliability

Sample Sale Schedule

Product	Model	Display Size	Resolution	LED Driver	Shipment
TFT-LCD Module with Projected Capacitive touch panel	AA190EB02-PCAP	19.0-inch	SXGA	Provided	June 30, 2017

Projected Capacitive Touch (PCAP)

Capacitive touch is a touch panel technology that uses two perpendicular layers of conductive material to form a grid. When electric current is applied, a uniform electrostatic field is created. The touch of a finger or other conductive object distorts the field, allowing the system to accurately track movement across the panel at multiple points. This technology is commonly used in smartphones and tablets.



Color TFT-LCD Modules with Projected Capacitive Touch Panels (new model in bold)

Display size	Resolution	Brightness (cd/m ²)	Viewing angle (°) (U/D), (L/R)	Model
7.0-inch	WVGA	800	85/85, 85/85	AA070MC01ADA11
		1000	85/85, 85/85	AA070MC11ADA11
		800	60/80, 80/80	AA070ME01ADA11
		1200	60/80, 80/80	AA070ME11ADA11
6.5-inch	VGA	1000	80/60, 80/80	AA065VE11ADA11
8.4-inch	SVGA	400	85/85, 85/85	AA084SC01ADA11
		400	80/60, 80/80	AA084SD01ADA11
		900	80/60, 80/80	AA084SD11ADA11
	XGA	500	85/85, 85/85	AA084XD01ADA11
		800	85/85, 85/85	AA084XD11ADA11
		400	80/60, 80/80	AA084XE01ADA11
		800	80/60, 80/80	AA084XE11ADA11
10.6-inch	WXGA	800	85/85, 85/85	AA106TA01DDA11
		800	85/85, 85/85	AA106TA11DDA11
19.0-inch	SXGA	400	80/80, 80/80	AA190EB02-PCAP

Specifications

Model	AA190EB02-PCAP	
Display size/resolution	48.2cm (19.0 inches) SXGA	
Display area (mm)	376.32 (H) × 301.056 (V)	
Number of dots	1280 (H) × 1024 (V)	
Pixel pitch (mm)	0.294 (H) × 0.294 (V)	
Contrast ratio	800:1	
Luminance (cd/m ²)	400	
Viewing angles (°) (U/D), (L/R)	80/80, 80/80	
Colors	262K (6 bits/color), 16.7M (8 bits/color)	
LED driver	Included	
Electrical interface	LVDS 6/8 bits	
Size (mm)	W	434.0 (LCD: 404.2)
	H	359.0 (LCD: 330.0)
	D	18.9 (LCD: 14.9)*
Operational temperatures (°C)	-20 to +70	
Storage temperatures (°C)	-30 to +80	
Glass thickness (mm)	Up to 5	
Black mask printing	Available	
Strengthening treatment	Available	
Low-reflection treatment	Available	
Anti-smudge treatment	Available	
Optical bonding	Available	
Controller interface	USB	
Operating systems**	Windows7/8.1 and Linux	

* Depends on cover glass thickness (1.8mm thickness in this example)

** Support for other operating systems is available upon request

Environmental Awareness

The model is mercury-free and fully compliant with the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive 2011/65/EU.

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About Mitsubishi Electric Corporation

With over 90 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,238.6 billion yen (US\$ 37.8 billion*) in the fiscal year ended March 31, 2017. For more information visit:

www.MitsubishiElectric.com

*At an exchange rate of 112 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2017