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FOR IMMEDIATE RELEASE **No. 2775**

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Mitsubishi Electric to Expand Lineup of Color TFT-LCD Modules with Projected Capacitive Touch Panels for Industrial Applications

TOKYO, July 25, 2013 – Mitsubishi Electric Corporation (TOKYO: 6503) announced today the launch of 15-inch XGA and 19-inch SXGA color TFT-LCD modules with projected capacitive touch panels that enable intuitive operation. Sales will begin on August 23 at Mitsubishi Electric offices worldwide (http://www.MitsubishiElectric.com/semiconductors/). Initial production has been set at 1,000 units per month for the 15-inch model and 500 units per month for the 19-inch model.

The 19-inch module with projected capacitive touch panel will be presented at IPC & Embedded Expo 2013 in Shenzhen, China from August 1–3 and International Touch Panel and Optical Film Exhibition 2013 in Taipei, Taiwan from August 28–30.

The two additions to Mitsubishi Electric's DIAFINE lineup have larger screens and offer additional options for a broader range of industrial applications of high quality touch-panel screens compared to existing XGA modules ranging from 6.5 to 12.1 inches and WXGA modules ranging from 9.0 to 10.6 inches.

AA150XT11-PCAP

AA190EA01-PCAP

Highly reliable and widely applicable touch-panel solutions

- Wide range of solutions, including TFT-LCD, PCAP touch panel, touch controller and driver software, for diverse industrial applications.

- Factory-installed TFT-LCD, PCAP touch panel, cover glass and touch controller for excellent reliability.
- Multiple options, such as tempered cover glass and anti-reflection/anti-smudge surface treatments, for diverse operational environments.

Excellent visual clarity combined with tactile operation via cover glass

- Proprietary detective processing for smooth, accurate response to finger movements, even gloved fingers.
- Ultra-thin, highly conductive sensor lines with proprietary TFT array technologies for excellent clarity.

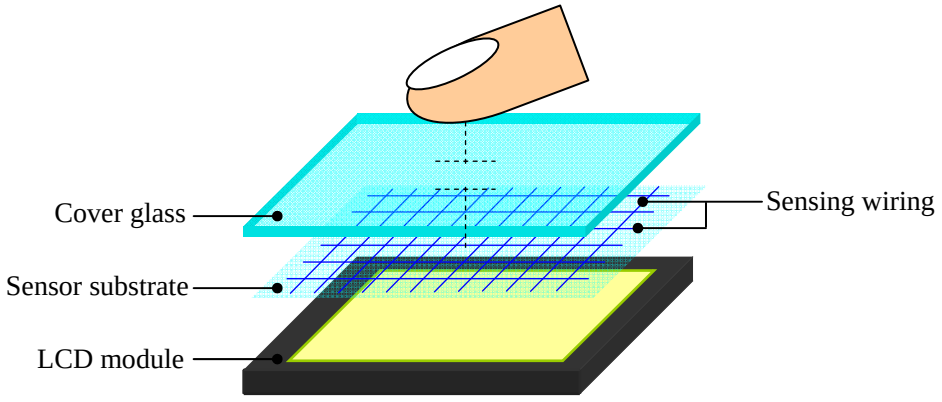
Lineup of color TFT-LCD modules with projected capacitive touch panel (new models in bold)

Display Size		Resolution	Model
4:3	6.5-inch	VGA	AA65VE11-PCAP
	8.4-inch	SVGA	AA084SD11-PCAP
	10.4-inch	XGA	AA104XF12-PCAP
	12.1-inch	XGA	AA121XN11-PCAP
	15.0-inch	**XGA**	**AA150XT11-PCAP**
5:4	**19.0-inch**	**SXGA**	**AA190EA01-PCAP**
Wide	9.0-inch	WXGA	AA090TA01-PCAP
	10.6-inch	WXGA	AA106TA01-PCAP

Projected Capacitive Touch (PCAP)

Capacitive touch is a touchscreen technology that uses two perpendicular layers of conductive material to form a grid. When a current is applied, it forms a uniform electrostatic field. The touch of a finger or other conductive object will distort the field, allowing the system to accurately track movement across the screen at multiple points. This technology is used commonly for smartphones and tablets.

Simplified Image of TFT-LCD PCAP Touch Panel



Specifications

Model		AA150XT11-PCAP	AA190EA01-PCAP
Display size/resolution		38.1cm (15 inch) XGA	48.2cm (19 inch) SXGA
Display area (mm)		304.1 (H) × 228.1 (V)	376.3 (H) × 301.1 (V)
Number of dots		1024 (H) × 768 (V)	1280 (H) × 1024 (V)
Pixel pitch (mm)		0.297 (H) × 0.297 (V)	0.294 (H) × 0.294 (V)
Contrast ratio		800:1	800:1
Luminance (cd/m^2)		1,200	1,200
Viewing angle (CR>10)(°)		-80 ~ +80 (H) -80 ~ +60 (V)	-80 ~ +80 (H) -80 ~ +80 (V)
Colors		262k (6 bits/color), 16.7M (8 bits/color)	262k (6 bits/color), 16.7M (8 bits/color)
Electrical interface		LVDS 6/8 bits	LVDS 6/8 bits
Size (mm)	W	346.5 (LCD: 326.0)	434.0 (LCD: 404.2)
	H	275 (LCD: 255.0)	359.0 (LCD: 330.0)
	D	20.4 (LCD: 16.6) (1.8 mm cover glass thickness)	18.6(LCD:14.9) (1.8 mm cover glass thickness)
Operational temperatures (°C)		-20 ~ +70	-20 ~ +70
Storage temperatures (°C)		-30 ~ +80	-30 ~ +80
Glass thickness (mm)		Up to 2.8mm (thicker specimens available upon request)	
Black mask printing		Available	
Strengthening treatment		Available	
Low-reflection treatment		Available	
Anti-smudge treatment		Available	
Controller interface		UART, USB	
OS*		Windows 7 and Linux 3.0	

* If support for other OS is necessary, please contact Mitsubishi Electric sales representatives.

Environmental awareness

The color TFT-LCD modules are fully compliant with the European restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS), and are completely mercury-free.

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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 3,567.1 billion yen (US$ 37.9 billion*) in the fiscal year ended March 31, 2013. For more information visit http://www.MitsubishiElectric.com

*At an exchange rate of 94 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2013