

## Tianma NLT USA introduces new LCD Modules with Ultra-High Luminance

**Chino, CA, May 15, 2017** --- [Tianma NLT USA](#) has introduced four new outdoor viewable liquid crystal displays: an 8.0-inch diagonal WVGA, a 12.1-inch WXGA, a 15.0-inch XGA, and a 15.6-inch Full HD. These modules, developed by NLT Technologies, Ltd., a Tianma Group company, are ideal for industrial applications needing superior viewing in outdoor or other high ambient light environments, such as boating equipment and construction devices.

### Ultra-high luminance

The 12.1-inch wide and 15.0-inch modules have a luminance of 1600cd/m<sup>2</sup>, the 15.6-inch wide model has a luminance of 1500 cd/m<sup>2</sup>, and the 8.0-inch wide model has a luminance of 1000 cd/m<sup>2</sup>. The ultra-high luminance results in displays with vivid colors and excellent visibility, even in environments of intense light such as direct sunlight.

### Wide operating temperature range

Each of these new products also features wide operating temperature ranges. The 8.0-inch wide model has an especially wide operating temperature range of -40 to +85°C, which allows for accurately displayed images even at very low and high temperatures and in environments with large temperature fluctuations.

### Enhanced display performance

The 8.0-inch wide and 15.6-inch wide modules incorporate NLT's proprietary SFT (Super Fine TFT) wide viewing angle technology. This technology provides ultra-wide viewing angles of 176 degrees horizontally and vertically and reduces color shift that may occur with changes in the viewing angle, ensuring clear images without visual stress in various operating environments.

With the development of more and more industrial display applications, demand for display products designed to withstand outdoor conditions is continuously growing. These new modules not only feature the ultra-high luminance that improves visibility in intense ambient light environments, but also guarantee superior performance under various operating conditions.

Tianma and NLT Technologies will continue to enhance their product line-up to address the wide range of various operating conditions, display sizes and resolutions needed to meet the various demands of the industrial market.

Samples of these new LCD modules will be showcased at Display Week 2017, May 23 to 25 in Los Angeles, California, USA, in booth 1005, and at Computex Taipei May 30 to June 3 in Taipei, Taiwan.

### Main specifications of ultra-high luminance models

Size	8.0-inch Wide	12.1-inch Wide	15.0-inch	15.6-inch Wide
Part number	NL8048BC21-03F	NL12880BC20-25F	NL10276AC30-52C	NL192108BC18-06F
Interface	LVDS	LVDS	LVDS	eDP
Pixels	800 x 480	1280 x 800	1024 x 768	1920 x 1080
Luminance	1000 cd/m <sup>2</sup>	1600 cd/m <sup>2</sup>	1600 cd/m <sup>2</sup>	1500 cd/m <sup>2</sup>

<b>Viewing angle (H/V)</b>	176° / 176°	160° / 160°	160° / 160°	176° / 176°
<b>Surface treatment</b>	AG	AG	Clear + AR	AG
<b>Operating temperature</b>	-40□+85 °C	-20□+70 °C	-30□+70 °C	-30□+85 °C
<b>Remarks</b>	SFT* <sup>1</sup> Color gamut 72% Long-life LED Vibration resistant to 6.8G	ColorXcell* <sup>2</sup>	Built-in LED driver board T-EVT* <sup>3</sup>	SFT* <sup>1</sup>
<b>MP</b>	Year 2017	Done	Done	Done

□1 SFT (Super Fine TFT) is NLT’s proprietary wide viewing angle technology.

□2 ColorXcell is NLT’s proprietary color reproduction technology.

□3 T-EVT (Transmissive-Enhanced View TFT) is NLT’s proprietary low surface reflection technology.

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### **About Tianma NLT USA, Inc.**

Tianma NLT USA is the leading provider of small to medium size display solutions to the Americas market utilizing advanced technologies from Tianma Microelectronics and NLT Technologies Ltd., coupled with the manufacturing resources of the Tianma Group. Applications include smartphones, tablet PCs, industrial and medical instrumentation, wearables, home automation, household appliances, office equipment, and automotive and rear seat entertainment devices, as well as test and measurement systems, instrumentation equipment, point-of-sale and ATM systems, gaming systems, global positioning systems, radio-frequency identification devices and barcode scanners.

Technologies include TFT, LTPS, Oxide-TFT, AM-OLED, flexible, transparent, 3D, PCAP and In-cell/On-cell integrated touch. With a network of best-in-class distributors and value-added partners, Tianma NLT USA provides complete display module solutions for a broad base of customers and applications. The range of display features offered includes ultra-high resolutions, wide temperature ranges, high contrast ratios, rich color gamut, backward compatibility, LED backlights, high bright and transfective viewing for use in diverse lighting environments.

*The content in this press release, including, but not limited to, product prices and specifications, is based on the information as of the date indicated on the document, but may be subject to change without prior notice.*

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