

## Leonardo by MTA

### A customizable display based on Android for off-highway applications

Codogno, Lodi, Italy, 5 December 2018. MTA, a company renowned for the development and production of a wide range of electromechanical and electronic products for the primary OEMs, at EIMA 2018 presented Leonardo, the off-the-shelf display whose software can be easily customized by the customer according to the specific needs of the off-highway machines it is installed on. Leonardo can be used as a stand-alone device, and in this case it also acts as a dashboard, but it can also be incorporated in an electronic system that includes other displays or dashboards.

Leonardo's software can be customized using Android Studio, a software environment that is aimed at the most expert programmers and that allows customers to develop complex, refined graphics. To make programming as user friendly as possible, MTA has developed a proprietary Android plug-in called Speedy Creator that makes available specific functions and graphics of the agricultural world, allowing quick, simple development of applications.

Leonardo can also be programmed by OEMs using MTA Studio, another software tool that was developed in-house and that is easy to use even by those who are not experts, ideal when the application does not require elaborate graphics.

#### A specific hardware for working in all conditions

Leonardo has a large screen, a 12.1" TFT color touchscreen with a resolution of 1280 x 800 pixels that makes it ideal for all those off-highway applications where it is necessary to simultaneously display several different parameters related to the machine and the equipment connected to it. The multitouch screen (up to 10 points) with the latest generation touch controller also makes it very reliable and extremely accurate even when the operator uses gloves.

The large size, the high resolution and the high luminous intensity give Leonardo a very high visibility, even with intense direct light. Moreover, Leonardo undergoes an optical bonding treatment that involves a special technique that completely eliminates the air between the display and the screen, thereby minimising glare. Finally, the glass used for the screen is anti-glare and anti-fingerprint.

MTA also paid particular attention to the materials and construction methods employed on Leonardo to make sure that the display remained highly robust and reliable over time, extremely resistant to vibrations and high temperatures, as well as ensuring an IP66 degree of protection.

#### MTA S.p.A.

## Modern interfaces for connection

Leonardo offers WiFi and Bluetooth interfaces. The former allows the display to connect to a WiFi hotspot, while Bluetooth (available from 2020) can be used for direct connection to a smartphone. In fact, Leonardo also includes a speaker that, thanks to a microphone input and an audio output connected to a possible external audio amplifier, can also be used in hands-free mode.

Like the other on-board dashboards, displays and units developed by MTA and customizable thanks to the MTA Studio and Android Studio software environments, Leonardo is entirely developed and produced at the company's production site in Rolo, a factory dedicated to electronic production that implements the most modern technologies that meet the latest, most stringent regulations of the automotive sector.

### IMAGES

### CAPTIONS

	<p>Leonardo, a modern 12.1" display with customizable software and hardware that makes it ideal for applications in the agricultural and construction world.</p>
	<p>MTA Speedy Creator, an Android plug-in that allows OEMs to quickly and easily develop applications.</p> <p>Android Studio is a software environment that allows the development of complex, refined graphics.</p>

**MTA S.p.A.** is a global leader in the development and production of a wide range of electromechanical and electronic products developed internally for the primary manufacturers of cars, motorcycles, tractors, and heavy vehicles. Founded in 1954, MTA has two production sites in Italy (Codogno and Rolo), 8 foreign sites, sales of about €198 million, and 1,330 employees.

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