Purpose-built Rugged Tablet for Accurate Real Time Measurements

RealSense 3D Camera is Fully Integrated to Capture Detailed Images

SAN JOSE, Calif. & BuildTech 2019, April 30, 2019 – DT Research, the leading designer and manufacturer of purpose-built computing solutions for vertical markets, today announced the DT301X-TR Rugged Tablet, a lightweight military-grade tablet that is purpose-built to enhance the precision for bridge and construction inspections, 3D surveying, mapping of underground utilities, and crime and crash scene reconstruction.

With 10.1" high-brightness capacitive touch screen that can easily be read in a wide range of lighting indoors and outdoors, a choice of Intel 8th generation Core i5 or i7 processors, and MIL spec and IP ratings to hold up to real-world hazards, the DT301X-TR performs in many industries and environments.

The DT301X-TR integrates the optional Intel® RealSense™ Depth camera which provides real-time 3D imaging to quickly and accurately create measurements for CAD, engineering, design, utility and project management, and crime/crash scene forensics. Scientific grade data, which is important for evidence as well as building plans, is now easier to access and use for specialists and non-credentialed workers alike. With this 3D camera technology, depth perception is integrated to add the most accurate image to make projects stay factual and consistent. The integration of the 3D camera with a rugged handheld tablet improves the mobility and reduces the bulk and limitations of a laser scanner for small, hard-to-reach spaces and brings the measurement, real-time scanning, and positioning together in one device which can also be used to process and transmit the data.

Using rugged tablets with 3D technology allows the as-built status of a project to be tracked and documented in real time, reducing the project cycle time, and also allows data to be shared with the owner, general contractor and subs as it is captured. This boost to efficiency and accuracy validation shortens payment cycles as well as improving the overall BIM (Building Information Modeling), getting infrastructure going quickly and getting payments to contractors faster.

"The combination of the DT Research rugged tablet with the RealSense depth camera and DotProduct's Dot3D Pro software enables projects to be quickly set up, tracked, and completed for all staff and tasks whether in the office or on the site. The ease of use these tools bring to 3D workflows can benefit a wide range of applications from construction verification to asset management to crime scene mapping." says Tom Greaves, chief marketing officer at DotProduct.

The DT301X-TR also provides a GNSS multi frequency RTK with carrier phase for real-time mapping and positioning, and supports GPS, GLONASS, BeiDou, Galileo, and QZSS. The optional foldable antenna supports high-accurate measuring field work, which can be measured with RTK GNSS positioning directly, or used to connect to an external antenna for higher precision.

Some other data capture options offered on the DT301X-TR besides the 3D camera are a 2D barcode scanner for equipment/location tags, long range Bluetooth for 1000ft range ideal for connecting to Robotic Total Stations and 4G LTE mobile broadband for the latest in high speed communications. Another option is a bright LED light that can be attached to the DT301X-TR and stay consistently on for up to two hours, bringing light to underground infrastructure mapping and scanning.

The flexibility for set up and use is enhanced in the DT301X-TR rugged tablet with Microsoft Windows® 10 IoT Enterprise operating systems for convenient integration with existing applications, bringing together the advanced workflow for data capture, accurate positioning and data transmitting.

With high capacity 60 or 90 watt hot-swappable batteries, the rugged yet lightweight DT301X-TR keeps working continuously whether in the field, office, or vehicles, complemented with a variety of battery chargers so fully-charged batteries are always available.

This rugged tablet gives detailed accuracy combined with the latest 3D camera technology all in one tablet that is rugged and easy to use in the field. Whether at the construction site, mapping underground utilities, or at the freeway crash scene, the cost-effective DT301X-TR is ideal for accurate measurements to enable data-driven decisions, able to travel to wherever the work is.

The DT301X-TR Rugged Tablet will be available in May 2019 from DT Research's authorized resellers and partners. DT Research will be at booth 217 at AEC's BuildTech show.

About DT Research

DT Research™, an early Mobile Tablet pioneer and leading designer and manufacturer of purpose-built computing systems for vertical markets, delivers the world's most comprehensive line of Rugged and Industrial-grade Tablets, Mobile POS Tablets, Digital Signage Systems and Medical Computing Solutions. DT Research products are uniquely designed with customizable built-in options assembled in California, providing customers with rapid time-to-market solutions. The DT Research family of products is based on embedded computing platforms that power secure, reliable and cost-effective computing. DT Research systems offer computing mobility within industrial and harsh environments through durable solutions with wireless connectivity, high-quality touch displays, and Windows® operating systems. More than 200 organizations across the globe rely on DT Research solutions in industries such as government, healthcare, hospitality, logistics, military, retail and warehousing. DT Research is headquartered in Silicon Valley, California with offices in China and Taiwan. For more information, visit www.dtresearch.com and follow @dtresearch, #MilitaryTablets and #RuggedTablets.

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