



THE SKY IS THE LIMIT

NOW OFFERING: MICRODRONES FOR SURVEYORS & BEYOND

As of July 2021, Duncan-Parnell offers Microdrones products for industries such as Surveying, Mapping/GIS, Construction, Inspection and more! GE and Microdrones have entered a worldwide licensing partnership, where Microdrones will bring the GE industrial drone line to market globally, providing professionals access to powerful aerial surveying technology that will enable them to work more efficiently, accurately, safely and profitably. With LiDAR, photogrammetry and gas detection systems, the GE industrial drone line offers professional drone survey equipment and software that is simple to use in the production of high-quality geospatial data.

- **Be more efficient and save time.** Spend less time in the field collecting data.
- **Stand out among competitors.** UAVs are quickly becoming an industry standard. More customers are asking for UAV surveying. In order to stay ahead of the competition and keep up with customers' needs, forward-thinking companies are preparing to deliver.
- **Work safer.** Easily complete projects in areas that are difficult or dangerous to access. Safely survey challenging terrain, crumbling structures, high locations and areas affected by natural disasters.
- **Keep worksites going.** You no longer have to stop operations and shut down equipment to collect the data you need.
- **Expand your offerings.** By incorporating various payloads and technologies into your system, you can increase the number of services and deliverables you can provide your clients.
- **Slash post-processing times.** Microdrones' comprehensive systems allow you to post-process data in a fraction of the time.



TO LEARN MORE ON DRONE TECHNOLOGY AND THE MICRODRONES BRAND, VISIT OUR BLOG:

[Duncan-Parnell Adds Microdrones Surveying Drones to Geospatial Product Offerings](#)



TECH TIP

Keeping Trimble TSC7/Ranger 7 BIOS Up To Date

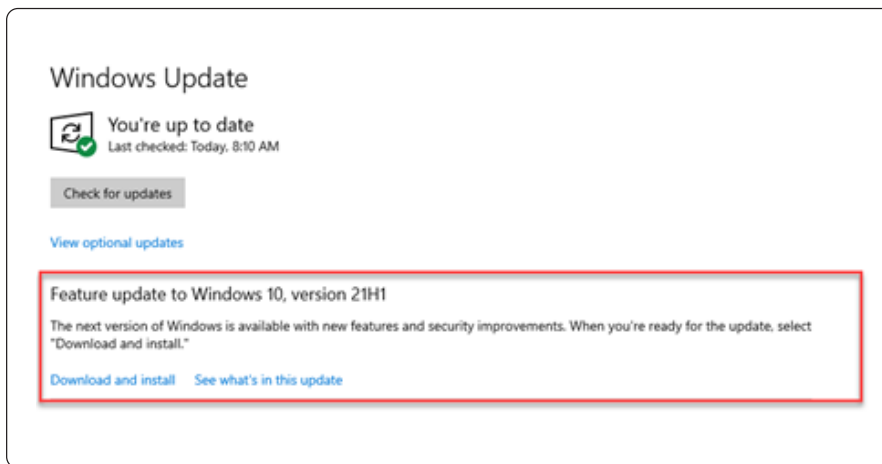
What is the BIOS update and why is it important?

The BIOS is a separate update for Windows 10 data collectors, TSC7 and Ranger 7 that is just as (if not more) important as your Windows updates. If you picture a house: the BIOS would be the foundation, the TSC7/ Ranger 7 would be the walls, Windows 10 would be the environment within the house where Trimble Access lives. Without a good foundation the house falls.

The BIOS tells Trimble hardware and software how to interact with Windows. As Windows writes version updates (i.e., Windows 10 1903 to Windows 10 1909 20H1 to Windows 10 20H2), Trimble will release new BIOS on its website to update the data collector's hardware and software to these revisions. The BIOS update improves, resolves, and prevents connectivity issues with the EM120 Radio Module, Bluetooth, and Wi-Fi, among other things.

When to apply Windows updates and look for BIOS release?

Stay current and install all Windows supplemental updates such as security patches and current version updates as they are released. Refrain from installing Feature Updates! See below.



These feature updates are beta versions of Windows for future releases. These future versions can and have caused problems with how Trimble Access and Survey Pro interact with Windows drivers such as Wi-Fi, Bluetooth, and the EM120 Radio Module. When a future release of Windows is made available for beta testing and download, Trimble reviews it and determines if a new BIOS is required. It is during this time Trimble works on the latest BIOS and will release it on the web site mentioned below.

Windows will eventually mandate that you install this version, and at this time you will need to visit the Trimble site to check for the latest BIOS release. It is recommended to check the website once a quarter for any additional updates that may have been released.

Where and how to apply the updates?

Visit Trimble's website for the TSC7, <https://geospatial.trimble.com/products-and-solutions/trimble-tsc7#product-support>, and scroll down to Support and Downloads.

Select the link, Support-TSC7, this will open a new window with all the support links for the TSC7/ Ranger7. As of this Tech Tip use the top link, "TSC7 Ranger7 Windows 10 20H2 Update." This will open a PDF with an overview of the updates along with links and the instructions to install them.

Within this PDF you will find additional Windows 10 updates to be applied to the latest BIOS (X71). There will also be a full OS installer that will only be used to completely wipe and reload BORK and the collector with the latest BIOS and operating system. This option is only to be done as a last resort or as directed by your support representative.

Please feel free to contact Mark White or Erick Scott with questions.





Habitat for Humanity and Duncan-Parnell Team Up for Charlotte Build

Since April 9 we have been a part of a Habitat for Humanity build in Charlotte, NC, not too far from our corporate office. This home will be Duncan-Parnell's 7th Habitat Build - providing safety and comfort to a family of seven with five young children ranging from one to 11. "We at Duncan-Parnell are grateful to be able to support such an impactful organization. Lack of affordable housing is a problem in almost every community we serve. Habitat's approach – a hand up, not a handout – is a proven way to break the cycle of generational poverty and create more affordable housing options," said Mark Duncan, president of Duncan-Parnell. Our volunteer days recently came to an end; however, the Habitat team is finishing up making final touches. There will be a dedication ceremony and ribbon cutting for the family in the early Fall.

Employee Spotlight: Meet York Grow



York began his venture into GPS technology as a user while a biologist for the US Army Corps of Engineers. Twenty-two years ago, he stepped away from the public sector into a sales role with Earth Vector Systems, a fledgling Trimble dealer in Virginia. In 2012, Duncan-Parnell acquired EVS, and York transitioned to the Duncan-Parnell team. Since then, York has moved up to a managerial role where he manages the Mapping and GIS Team with Duncan-Parnell and their key partnerships with Trimble, Trimble Water and Esri. He has a total of 21 years of experience in providing geospatial solutions to the mid-Atlantic and Southeast. York values building customer relationships by being a trusted advisor in solving problems. In recent years, his joy is to not only help customers be successful but to play a hand in his team's success as well. Away from the GPS technology, you will find York outdoors in his workshop, garden, or camping in the western part of Virginia where he resides.

News & Updates

Trimble Access 2021.10 Now Available

Now supports "scan to scan" to "scan to surface" comparisons, configurable stakeout deltas and a new GNSS MultiTilt measurement method.

Trimble Survey GNSS Firmware v5.51/6.11

Includes fixes and enhancements to the Survey Receiver Firmware.

Trimble NEW SX12 and SX10 Firmware Available

Firmware version S2.4.35 is now available for both the SX12 and SX10 scanning total stations. This firmware version includes several log improvements as well as instrument reliability improvements.

Trimble Business Center v5.51 Now Available

TBC v5.51 is now available for download. You can download on the website or use TBC's Check for Updates routine within the software. This release includes support for the new MX50 mobile mapping system, as well as exciting new mobile mapping features to complement.

New Trimble TerraFlex Version Now Available

A new version of Trimble TerraFlex is now available to download the support for the latest Trimble Identity (TID) update. Users will need to update to the new version by Aug 30, 2021.

Trimble RTX Performance Improvements

Surveyors will spend less time in the field when using Trimble ProPoint GNSS receivers, as CenterPoint, RTX convergence times have been reduced by 60% globally down to an average of <3 minutes. Performance improvements also include more reliable and robust signals worldwide.



WAVELENGTHS

OVER 20 YEARS OF GEOSPATIAL NEWS / Summer 2021

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YOUR TRIMBLE SURVEY & MAPPING CONNECTION
IN THE CAROLINAS, DC, DE, FL, GA, MD, TN*, VA & WV

WORLDSENSING

Providing Expertise and Technology Solutions for Your Monitoring Project

Trimble Monitoring applications provide streamlined workflows to set up, monitor and report on regular control and deformation surveys. Expanding your business into monitoring or taking on a monitoring project requires time, guidance, and a good partner. With Duncan-Parnell you get all of those – making us a one stop shop!

We have always offered great geospatial products from Trimble, but now we also provide Trimble's line of geotechnical sensor systems powered by WorldSensing, as well as Senceive products. Duncan-Parnell can help guide you in adding monitoring to your business to grow projects and build even stronger relationships in combination with our products.

Visit <https://duncan-parnell.com/geospatial-solutions/monitoring>



Upcoming Events/Conferences

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|------------------------|---|
| AUG
26 - 27 | South Carolina Division of International Association for Identification Conference
Columbia, SC |
| AUG
26 - 27 | South Florida GIS Expo
Palm Beach, FL |
| AUG
31 - 9/3 | Chesapeake TriCon 2021
Ocean City, MD |
| SEP
13 - 16 | WaterJam 2021
Virginia Beach, VA |
| SEP
14 - 18 | Virginia Association of Surveyors Conference
Williamsburg, VA |