

Case Study

Customer:

Oak Surveys

Project:

Road/Site/Tree surveys

Solution:

Trimble S8 with MultiTrack technology



around. With the MT1000 I just twist the dial to select one of the eight active targets which can operate simultaneously and set up Trimble Access field software on my S8 logger to check the target ID to make sure the right prism is locked. This means that again I have confidence in the accuracy and completeness of the work I'm doing with no risk of tracking the wrong target. Again, 100% success.

Busy road surveys: Surveying on busy roads with lots of traffic and people, there is always the problem of large vans, lorries

“... I have confidence in the accuracy and completeness of the work I'm doing with no risk of tracking the wrong target.”

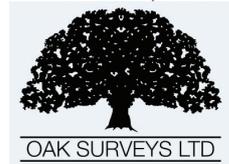
**Chris Holley ,
Oak Surveys**

and pedestrians passing by. The MT1000 has a 'predictive tracking' function that can be configured in Access software and for 3 seconds it will follow my predicted path allowing me to continue without the need to lock back on to the target. Again, The MT1000 has delivered a 100% success rate.

For me, the reliability of the MultiTrack technology is worth its weight in gold, not just because of the time saved but because I have total confidence in the accuracy of the data I'm collecting.”

Many thanks to Chris Holley for sharing his experiences with MultiTrack technology.

www.oaksurveys.co.uk



▲ “Search” 100% success rate for Chris Holley's MT1000



MultiTrack technology “Worth its weight in gold”

Trimble's patented MultiTrack technology has been around for over 10 years and many KOREC customers report that there is still no beating the MT1000 target – renowned for its solid lock in even the most challenging conditions.

One of those KOREC customers is Chris Holley, Owner of Folkestone based Oak Surveys. Working throughout the South and East of England, Chris undertakes a wide variety of survey work including topo, GPS, building surveys and tree surveys. During his 14 years of survey experience, including 5 years with Bovis Homes, he has used both Leica and Trimble instrumentation but favoured Trimble's reliability and the single user friendly interface provided by Access software when it came to the choice for his own business. Today his fleet includes both Trimble GNSS and a high accuracy S8 total station with Trimble VISION.

100% Lock!

Chris uses his Trimble S8 in conjunction with the MT1000 target and he reports that this combination not only gives him total confidence in the data he is collecting but has also saved him valuable time on challenging sites. He explains:

Dense tree surveys: I carry out many tree surveys in conditions that are going to be problematic for even the most reliable tracking technology. However, the MT1000 has never let me down, even in really overgrown areas. When the undergrowth is thick and high, I simply access the video feed from my S8 Trimble Vision instrument and use its built-in cameras to ensure that it is roughly looking in the right area - even if it can't see me, I can use it to locate a distinctive tree near to me and then just hit 'search'. Because the infra-red signal is so strong. The instrument finds me every time, even in dense foliage. This saves me time and also means that I can avoid carrying a slasher to cut clearance. On every tree survey I've carried out, the MT1000 has delivered a 100% success rate.

Crowded site surveys: The MT1000 is also invaluable when I'm on busy sites where there are any number of other instruments

About Trimble MultiTrack technology

Tried and tested, Trimble's MultiTrack technology is 10 years old and there is simply nothing else on the market to rival it. This is because unlike other manufacturers, Trimble tracking does not rely purely on the reflectiveness of the target. Instead it uses a unique target ID system which identifies the prism using a modulated infrared light wave. Before measuring a point, Trimble Access field software can be set up to check the target ID and make sure the right prism is locked.

Up to eight active targets can operate simultaneously on the same site with no risk of tracking the wrong target, ensuring accuracy and completeness of work with no loss in productivity due to false target lock.

Some instruments on the market have a function called 'self-learning' in the form of a scanning function whereby you can do several scans to discount reflective surfaces. However, you need to cover the prism to exclude it from the scans and also nothing has to move during the process – an unrealistic situation on a busy site. This process therefore not only takes time but engenders a false sense of comfort because it works on the flawed principle that nothing within the environment moves.

The 'self-learning' approach tells you what to exclude, the Trimble approach tells you what to include!

Trimble options include Trimble MultiTrack and ActiveTrack 360 Targets

The ActiveTrack 360 target was designed to provide a smaller, lightweight target for optical surveying utilising Trimble's industry leading active tracking technology.

ActiveTrack 360 target is an active-only device (ensuring correct measurement) and therefore contains no glass prisms. Eliminating the prisms provides for a smaller, lighter weight target, while maintaining robustness and measurement accuracy.

It also offers Trimble's new eBubble function – an electronic bubble displayed on the controller. This means you only have one place to look, which is especially useful when the pole bubble is hard to see. Connecting to the target via Bluetooth, allows the operator to see the plum of the pole on the handheld controller. This allows for better accuracy, especially when



▲ The MT1000 has a 'predictive tracking' function for use on sites with traffic

surveying in hard to reach areas or setting out using a short pole or point. The Trimble MultiTrack target provides versatility to track both active and conventional targets. Up to eight active targets can operate simultaneously on

the same site with no risk of tracking the wrong target, ensuring accuracy and completeness of work with no loss in productivity due to false target lock.

Contact us:

Please do get in touch for further information on any of the products or services mentioned in this case study, a demonstration, support or just a chat about your requirements.

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