Getac

Rugged Mobile Computing Solutions

GIS maps always at hand

Rugged Getac F110 Tablets as the centrepiece of surveying work for the municipal utilities Walldürn

/ CHALLENGE /

On-call services from Stadtwerke (municipal utilities) Walldürn guarantee a reliable supply of electricity, gas and water around the clock. To do this, the technical field service needs mobile maps of the network infrastructure, which are available in every vehicle at all times. In the event of damage, the technicians can quickly gain an overview of the situation and assess whether pipes from other areas are also located in the affected zone.

/ SOLUTION /

For over 25 years, Stadtwerke Walldürn has been maintaining network documentation data in the Smallworld GIS applications of the IT service and consulting company Mettenmeier, a long-standing Platinum Partner of Getac, a leading global provider of rugged technology and video solutions. Smallworld GIS provides daily updated network and asset data to MGC, its mobile, map-based application. With the introduction of Getac's rugged F110 tablets, the GIS maps are also available offline at any time and are therefore independent of mobile phone coverage or WLAN services. Reliable data availability together with a robust device is crucial for surveys or necessary excavations - especially under adverse conditions.

/ ADVANTAGES /

The fully rugged Getac tablets together with the Mettenmeier MGC GIS application not only ensure independent data access, but also more security and reliable network data - in very diverse weather conditions and even after shocks and drops. The 11.6-inch display of the F110 tablets offers sufficient space for geographical applications and is easy to read even in direct sunlight thanks to automatic brightness control plus anti-reflection coating; tachymeter operation and Trimble Access also offer maximum convenience and professionalism.

/ Stadtwerke Walldürn /

"The Getac F110 tablets support us enormously in our daily work. I would definitely recommend them to other municipal utilities."

Boris Kößler, surveying technician at Stadtwerke Walldürn.

Getac F110
Fully Rugged Tablet

/ CHALLENGE /

Stadtwerke Walldürn, above all its on-call service, has to ensure the continuous availability of electricity, gas and water. The specialists on site require precise network and infrastructure data that is available at all times and comprehensively supplements their own knowledge of networks, nodes and energy and water flows. In the event of damage, an overview of the situation should be obtained as quickly as possible and risks assessed, such as the location of power cables in the vicinity of a burst water pipe. However, this data is also indispensable for surveying or necessary fieldwork.

Stadtwerke Walldürn required increased digitalisation for its field operations in order to establish maximum security, even faster and smoother processes. This includes absolutely reliable and robust computing solutions as well as a professional geo-information system that allows network information to be obtained quickly, easily and across all areas and operating resources to be located immediately, even in offline mode.

/ SOLUTION /

With the data from Smallworld GIS, a platform for geodata management, and the Getac F110 tablets, the requirements of on-call duty, surveying or excavations can now be mastered quickly, reliably and securely.

Offline and mobile, up-to-date network and operating data is always available, even during tough operations.

The Getac F110 is also ideal for measuring supply lines during ongoing construction work. The performance values are particularly crucial on construction sites, so that the fully robust F110 tablets serve as the central control units for all work. Both data acquisition and data processing on the F110 run via the Trimble Access surveying programme. The tablet is connected to a GNSS receiver via Bluetooth in order to carry out measurements or precise positioning. To increase positioning accuracy, an internet-enabled SIM card provides a correction signal for RTK-GNSS. The tachymeter operation is particularly smart. It is carried out via a 2.4 GHZ data bridge, which allows control over several hundred metres between the F110 tablet and the Trimble robotic total station (a motorised total station) used.

/ ADVANTAGES /

Together with the fully rugged F110 and innovative software for current network infrastructure data, the latest tachymeter technology also enables measurements to be taken over long distances by a single person.High hardware performance values allow large volumes of geodata to be saved in the surveying software.

Data continuation in the GIS takes place via 3D point data, which can be read in from the survey via SEPM-X-Translator (and contain information on sector allocation, installed components or type of lines, among other things). Further instruction is carried out in the Smallworld GIS and the Smallworld specialised shells for electricity, gas and water for the precise documentation of pipe and cable routes.

Getac accessories round off the complete solution: including standard batteries (with external charging cradles) plus additional high-performance batteries for 24-hour operations; vehicle/car adapters; rotating carrying solutions and shoulder straps (2-point or 4-point harness) and a sturdy carrying case.

In addition to its offline capability, the mobile MGC application is characterised above all by its simplicity. Functions such as zooming (via buttons or finger gestures), favourites, object/property data queries or address searches, as well as the ability to show/hide individual sections, make it easy to find operating resources quickly. In addition, the F110 Multi-touch screen allows both hand gestures and digitiser use and is particularly helpful when using maps.

„In terms of performance and handling, the F110 tablet from Getac is clearly superior to other comparable devices“, concludes Boris Kößler abschließend.