Pilot Walktour Pack V4.7

High Performance Chassis for Portable Mobile Network Benchmarking

Pilot Walktour Pack is a portable multi-technology (2G/3G/4G/5G) and multi-terminal radio access network test and measurement solution for mobile network evaluation and benchmarking. The newly redesigned Pilot Walktour Pack backpack case supports up-to 14 test terminals and a scanner. The terminals are controlled by an Android tablet controller unit (connected over WiFi hotspot) for measurement configuration, execution and monitoring. This lightweight solution is suitable for indoor/outdoor walk test or outdoor drive test. The robust design also includes hot swappable battery for uninterrupted and continuous network testing campaign.
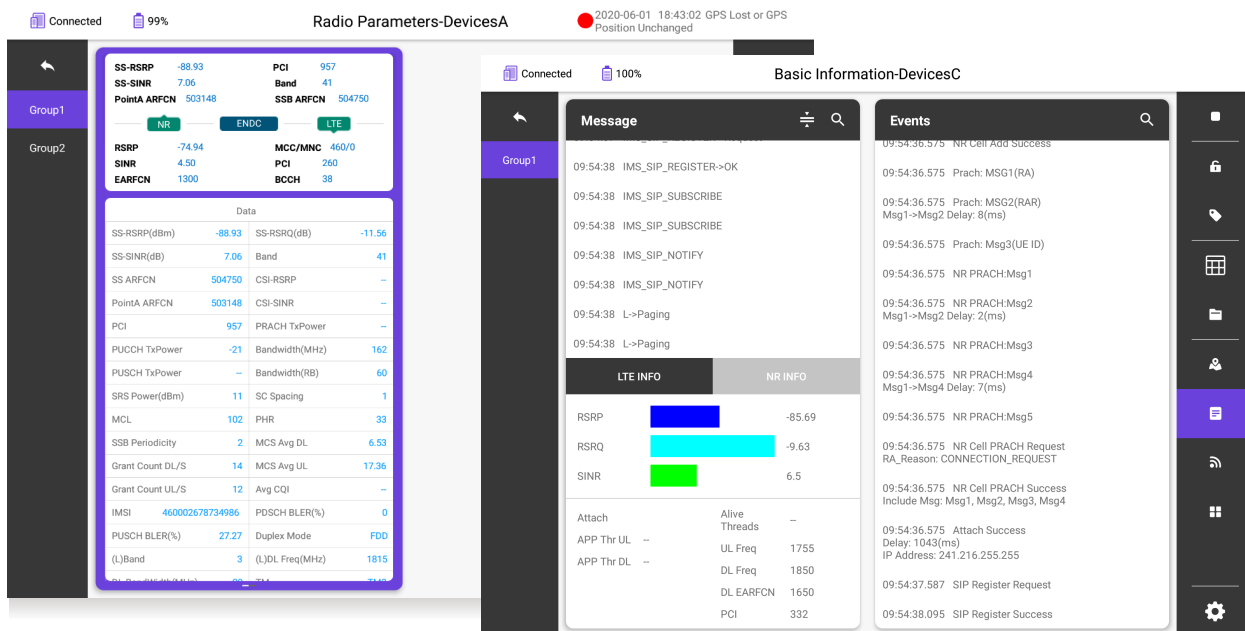
System Architecture

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5G NR measurement

Pilot Walktour Pack supports 2G, 3G, 4G and 5G radio access technology. For 5G, various Qualcomm and HiSilicon chipset-based test terminals are supported. This would allow the benchmarking campaign to cover

- 5G network and services performance from multiple network operators
- performance of 5G terminals from various terminal vendors
- terminal performance between different chipset vendor
- performance and coverage between different radio access technology for example 2G, 3G, 4G and 5G

Portable backpack solution for indoor and outdoor testing

Designed with portability in mind, Pilot Walktour Pack is well suited for multi-terminal test and measurement, and benchmarking for indoor areas such as airports, train stations, shopping malls etc. The flexible features also make it suitful for outdoor field test such as drive test.

Extensive selection of test terminal

Simultaneous testing with 8+6 test terminals (and a 3rd party scanner) is feasible, where test configuration and execution is managed by a controller unit running on an Android tablet. This is connected via a 2.4G/5G WiFi hotspot for an enhanced connection stability between the Pilot Walktour backpack and the tablet controller. Dual hot swappable battery (upto 8 hours of battery life each) for a consistent and uninterrupted power supply especially in a benchmarking campaign. Post analysis can be done remotely with Pilot Pioneer Expert post processing solution or Pilot Fleet Edge system.

Pilot Walktour Pack supports latest Android tablet like Samsung T Series, Samsung S Series, HUAWEI Tab, and extensivet latest test terminal like HUAWEI P40, HUAWEI P40 pro, HAUWEI MATE30, HUAWEI MATE30 pro, HUAWEI MATE40, HUAWEI MATE40E pro，Samsung Galaxy S22, Samsung Galaxy S21 ,Samsung Galaxy S20, VIVO, IQOO9 and OnePlus 8 Plus, etc.

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Modern Services Testing

Pilot Walktour Pack incorporates the latest voice and data test services for 2G/3G/4G/5G from subscribers' perception.

- **Voice quality**
  - M2M (PESQ/POLQA), VoNR, VoLTE, 2G/3G calls
- **Data performance**
  - Ping, FTP (DL/UL), Multi FTP, HTTP Download/Page, WAP, Email, Traceroute, Attach, SMS, DNS Lookup, Speed Test, PBM, Video Play
- **Scanner application**
  - Support CW and Pilot scanning test with PCTEL IBflex

Hardware Specifications

Main Unit	
Model	WalktourPack6.0
Size	H400*W300*D75mm
Weight	3.26kg
Material	Carbon Fibre
Color	Black
CPU	Intel 4 cores, 4 threads, processor base frequency 2.00 GHz
GPS	SMB Interface
WiFi	2.4GHz, 5.8GHz
Storage	
Hard Drive	256G or Customised
Memory	4GB/8GB
Battery	
Charging Power	Max.70W off, 35W standard charge
Battery capacity	11.1V , 6800mAh*2
Working capacity	4 hours~8 hours
Operating system	
System	Windows
Instruction	
Indicator light	Power LED, Charge LED, GPS LED, MODEM LED
Power light	4*LED
Interfaces	
Charging Interface	DC5525
Data Interface	8*TYPE C+6*TYPE A
LAN Interface	RJ45 , Gigabit
Audio Interface	8*3.5mm
Other Info.	
Supply Voltage	DC12V~24V
Rated power	<70W
Work Temperature	-10°~+45°
Storage Temperature	-40°~+85°
Packing Detail	Main Unit*1; Backpack*1; GPS*1; AC DC Power Cable*1; Cigarette Lighter Cable*1