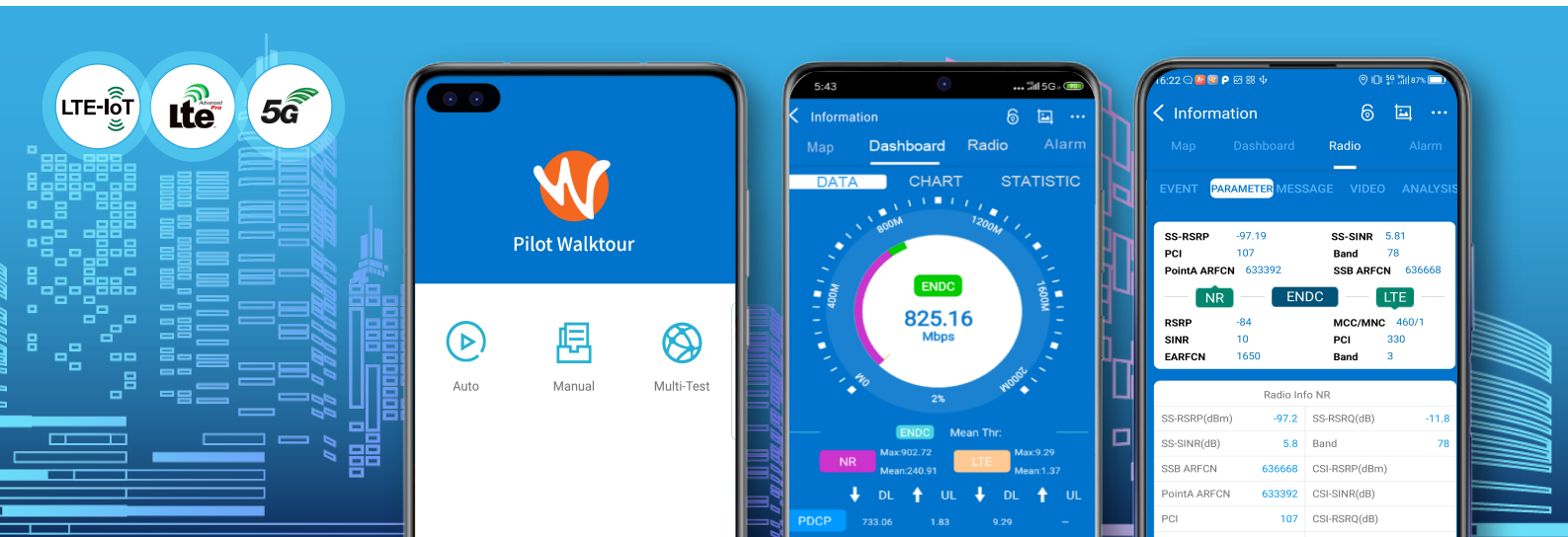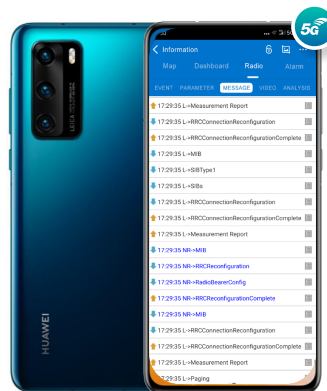# Pilot Walktour V4.5 (Android)

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Advanced Mobile Network Handheld Test Solution

Pilot Walktour is a powerful handheld based test and measurement solution that can be installed on the latest commercial smartphone devices. It is an extremely portable and easy to use solution that measures network and services performance from the subscriber's perspective. Pilot Walktour is designed to operate in both indoor and outdoor mobile network environment. Its intuitive user interface and insightful data measurement views allow testers to quickly and easily access the required page for quick configuration and measurement verification. Pilot Walktour is multi-technology and delivers the latest network and services test feature for network optimization.
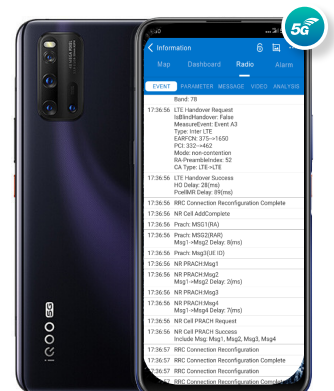
New Features

Standalone (SA) and Non-Standalone (NSA) 5G NR

Pilot Walktour supports SA and NSA 5G NR test devices based on Qualcomm X50/X55 and HiSilicon Kirin 990 chipsets. This enable network engineers to monitor in real-time the 5G NR serving and neighbor cells radio information, decoded L1/L2/L3 NR signalling messages, triggered network events and exceptions, L1 and L2 throughput, LTE and NR resource scheduling, LTE and NR KPIs, Beamforming information.

HUAWEI P40   Vivo iQoo 3

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Multi-Technology Terminals

Supported Qualcomm and HiSilicon chipset-based terminals include:

- Samsung S8 G9500
- Samsung S9 G9600
- Samsung Note10+ 5G
- Samsung Note10+ 5G (China)
- Samsung S20 G9810(China)
- Samsung S7 G9300
- Samsung S8+ G9550

- HUAWEI P40
- Vivo iQoo 3 5G
- Vivo iQoo Pro 5G
- Vivo Y85A
- Vivo Y79A
- Vivo X23
- ZTE Axon 10 5G Pro

- Mi MIX 3 5G
- Redmi K30 5G
- Mi MIX2
- Mi 8

Main Features

Various voice, data and application testing

- Legacy Voice Call, CSFB, VoLTE
- FTP, Ping, HTTP, iPerf, Traceroute, DNS Lookup, Attach, PDP, PBM, Parallel testing, Email, Speedtest
- OTT Applications test, e.g. WeChat, Skype, Facebook, Instagram, WhatsApp, and Twitter
- HTTP loading, HTTP Upload/Download, video loading
- SMS/MMS and other value-added service test

Audio Quality Measurement with PESQ and POLQA

- Upload logfiles to Pilot Fleet Unify Server for voice quality evaluation and post processing
- Mobile-to-mobile PESQ and POLQA MOS measurement

Automatic Indoor Positioning

- Connects to upgraded WALK-L3 gyroscope over Bluetooth.
- Multiple test scenarios: building floors, staircases, escalators, and elevators
- Positional accuracy deviation less than 1%

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Comprehensive Network Data Collection

- Data collection from 2G/3G/4G/4.5G/IoT/5G radio access technology
- TCP/IP data collection from data services test/message filtering
- Display of real-time air interface messaging and detailed decoding information

Indoor and Outdoor Test Scenarios

- Google offline and online maps, and maps in JPG, PNG, and BMP formats
- Radio parameter plotting over indoor and outdoor test route
- Cell line linking for serving and neighbor cells
- Detailed site information display and site location
- Management of indoor test based on building floors and specialized management of indoor test data
- Automatic indoor positioning with WALK-L3 gyroscope over Bluetooth.
- Multiple test scenarios: building floors, staircases, escalators, and elevators
- Scanning receivers:
  - Multi-RAT scan test with PCTEL IBflex
  - CW/Color Code/Pilot scan type

Forcing Functions with Samsung terminals

- Network, band, channel number and cell lock
- Forcing function works immediately without restarting Samsung handset.

Automatic Testing and Data Management

- Supported as test terminals with the new Pilot Walktour Pack system (Pilot Walktour Pack 5.0) for multi-network simultaneous tests
- Autonomous remote testing and centralized data management from Pilot Fleet Unify
- Test data uploaded to Pilot Fleet Unify and FTP servers
- Test data analysis by using DingLi's data statistics and analysis tools such as Pilot Pioneer Expert
- Project and test plan reuse
- One-click automatic service tests
- Automatic data statistics, replay, and upload

Enhanced Data Management

- Smart data Analysis, Search, and Filter Exceeded functions
- Data exception display, Go or No Go display
- Data details display including test mode, upload status, test duration, test plan

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Enhanced Statistics Functions

- Test information can be dynamically displayed on the interface based on the current radio access technology and test service.
- Statistics can be conducted based on indoor and outdoor data files respectively.
- Statistics report can be generated in the MS word/excel format based on the selected report template.
- Pre-defined statistics report template can be imported for data statistics.

Main Advantages

- Monitor QoS and QoE from a subscriber's perspective for a true user experience
- Obtain real-time network and services performance data for efficient optimization decision
- Highly portable for indoor/outdoor testing and areas that are only accessible via foot
- Cost efficient and easy to use solution anytime of the day