

# Pilot Walktour v4.8

## Advanced Mobile Network Handheld Test Solution



Pilot Walktour is an Android application that enables measuring and troubleshooting the wireless air interface and mobile application quality of service (QoS) and quality of experience (QoE). Runs on the latest commercial Android-based devices, enabling verification, optimization, and diagnosing of your mobile network in multiple indoor and outdoor environments such as malls, high-speed trains, metro stations, and expressways. Its advanced portable QoE-based testing capabilities provide visual insights to improve your users' mobile experience.

## Highlights

- Measures end-user QoS and QoE
- Lightweight design to fit indoor and outdoor walk test
- Support with a wide range of Qualcomm (X70/X60/X65) and Hisilicon Kirin 9000 chipset-based phone models
- Perform large-scale portable benchmarking measurement with the optional Walktour Pack solution
- Support for 5G Carrier Aggregation

## Features & Benefits

### **Versatile 5G measurement solution**

Supports the measuring and monitoring of 5G NR NSA/SA, OTT, ViNR, VONR, and ESP fallback

Visualize display PHY、MAC、RLC、PDCP layers

Support with a wide range of Qualcomm (X70/X60/X65) and Hisilicon Kirin 9000 chipset-based phone models

Optional use with Pioneer Expert edition enables test data post-processing analysis, that test reports will be ready shortly reducing time, work effort, and cost

Real-time monitor of the 5G NR serving cell and the neighbor

Present LTE and 5G NR KPIs

IoT testing supported with LiteProbe 3.0 LTE-IOT edition via Bluetooth connection

### **Lightweight benchmarking solution**

Support Walktour Pack carry-on benchmarking measurements(optional)

Enables longer walk tests thanks to the longer 4-hour battery life and lightweight design

Simultaneous test with up to 14 UEs

Provide the extra lighter backpack edition with no chassis design (optional)

### **Support with commercial off-to-shelf smartphones**

Walktour together with external iplus device enables full measurement with commercial smartphones

No special firmware or rooting are needed

Supports a wild range of Qualcomm and Hisilicon chipset-based devices

Up to two Walktour units can be connected to iplus at the same time

Used as a standalone system without an external power source

Simple to use, just plug and play

### **VoLTE and ViLTE benchmarking measurement solution**

Compare and benchmark measurements of VONR、VINR、VoLTE、CSFB

Perform VoLTE MOS testing with portable Bluetooth modular, support MOC/MTC voice testing

Provide cost-effective Cloud MOS solution that supports remote MOS and the built-in MOS record & play features with the specific phones

Real-time monitor MOC/MTC SIP RF, signaling data and VoLTE

## Wide OTT application testing

Compare how actual services like Skype, Facebook, Instagram, Whatsapp, Twitter, Youtube, and TikTok etc

Ability to test any application by simulating the common activities of users

## More connected user experience

Offers full application-level metrics on FTP Down/Up, Multi FTP, PBM, Parallel Service, iPerf, Ping, Attach and Video Play, HTTP Page, HTTP Down/Up, SpeedTest, Email, Facebook, SMS, MMS, etc

## Automated testing and data management

Support access to Walktour Pack system for benchmarking testing

Configure Pioneer back-end database, support statistics, analysis, and playback for testing data

Optional access to Fleet Edge Cloud platform to remotely centralize management

## LTE-A Pro Carrier Aggregation testing solution

Support Category 18 terminal, 2CC\3CC Carrier Aggregation, DL 256QAM/UL 64QAM and 4\*4 MIMO technology

Display wireless mobile network parameters, events and signaling

# Use Cases

## High-speed train/metro testing solution via Bluetooth connection

Optional Walktour Pack benchmarking edition with pinpoints automatically

Support user-defined start and end testing points

Display train start, pause, and travel route

## Indoor measurement with automated markers

Optional gyroscope with precise markers and geodetic coordinates

Ideal for multiple in-building measurements, i.e. malls, elevators, hospitals, hotels, support

jpg/png/bmp map loading

The accuracy of positioning is higher than 0.3%, and the error is 1% less

## Outdoor Drive Test solution for expressway and urban/suburb areas

Invoke the phone's built-in GPS module, support Google Maps online/offline upload, and GPS automatic positioning for buildings

Support customized testing route, up to 18 user-defined waypoints