



# 5G

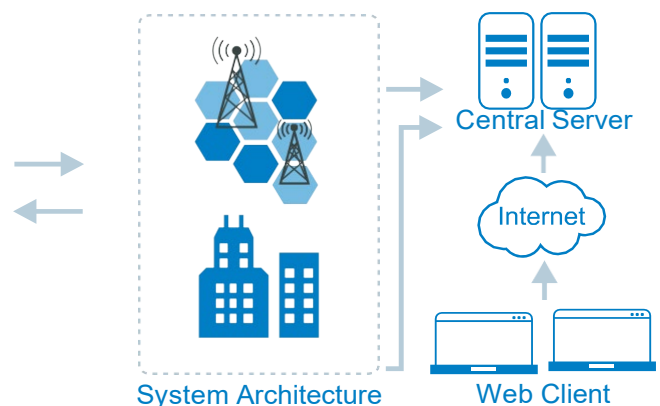
## SA / NSA

### 2G/3G/4G/5G/LTE-IoT

## Compact and Un-attended Remote Measurement Equipment

Pilot Scout 4.0 is DingLi' s most portable market leading multi-technology unattended test equipment. It comes with high-performance CPU and built-in high-sensitivity GPS chipset. The equipment is compact and highly stable, suited for remote automatic testing particularly in locations with small installation spaces or for large-scale deployment in wide network coverage area.

Pilot Scout 4.0 runs on the Linux operating system. Embedded modules are designed that the test equipment is stable and ready for testing as soon as it is powered on, for operational efficiency. Pilot Scout 4.0 is remotely managed by the Pilot Fleet Edge. This would allow the user to manage test plans, monitor and control test services easily in real time and anywhere through internet access. The real-time measurement data upload to Pilot Fleet Edge, automated processing and reporting significantly, improves the overall operational efficiency.



Items	Details
Test	Max. 3 modules, 2 test module + 1 test Modem module
GPS	GPS/GNSS/BEIDOU; built-in/ external antenna is optional.
WIFI/Bluetooth	IEEE 802.11b/g/n/ac, 2.4G/5G dual optional band Bluetooth4.0
Antenna	External full-band 5G antenna
Input Voltage	12V, 3A
Power Consumption	10W (typ.) 40W (max.)
Operating/ Storage Temperature	-10 °C ~+60°C
Expanded Interfaces	1 GPS antenna interface 8 test antenna interfaces 1 Type-C port (USB2.0) 3 SIM card holders (Nano SIM card) 1 power connector 1 LAN port (for device connection to PC)
Dimensions and Weight	220*139*35.8mm, approximately 1250g
Storage Capacity	128GB/256GB
Built-in UPS	Rated Voltage: 7.4 V Rated Capacity: 4000 mAh Power duration: 170~200 minutes

## Product Values

### Network Operators, System Vendors and Service Providers

- Cost- efficient solution for large scale deployment.
- Minimized operational resource with remote test and configuration.
- Improved operational and data analysis efficiency.

### Test Engineer

- Testing begins soon after the device is powered on, no any further settings are required.
- Remote administration for a more convenient and rapid test.
- Stable device for long-lasting failure-free operation

## Product Features

### Release Highlights

- Support forced functions: lock network, frequency point, BAND and cell.
- Support to turn on or off VoNR.
- Support 5G NR network test, including 700M, 900M and other frequency bands test.
- Tablet side can display 5G NR network parameters and cell information.
- Support Pilot Fleet Edge remotely control device logs real-time back to FTP.
- Support remote upgrade of firmware and kernel.
- Support multi-task concurrent testing, such as voice+FTP, FTP+Ping, etc.
- Support samba file sharing

## Remote Management

Pilot Fleet Edge Web remotely manages Pilot Scout 4.0 through centralized test plan configuration and execution, real-time device monitoring, statistics reports, exception location, and device firmware upgrade.

## Self-Contained Integrated Design

- External full-band 5G antenna.
- Support 2-channel NR data service test.
- Support 2-channel POLQA MOS test.

## Real Time Data Upload to Pilot Fleet Edge Web

Pilot Scout 4.0 supports real-time and complete data upload to Pilot Fleet Edge with the built-in wireless modem. It will also resume data transmission from the last known failure point to save on re-transmission time and data resource.

## Meet various test environment and scenarios

- Pilot Scout 4.0 is applicable for both outdoor (can be positioned in buses, taxis, trains, ships, etc.) and indoor (stationary hotspots such as hotels, shopping malls, residential, offices, etc.) test environment.
- Automatic indoor positioning test with "WALK" portable indoor gyroscope device
- Streaming and OTT test (Skype, Instagram, Facebook, WhatsApp, and YouTube) with Samsung handsets

## Real-Time Monitoring of Test Status

Users may monitor real-time radio parameters, events, GPS measurement routes, exceptions, device online status and test duration through Pilot Fleet Edge.

## Durable Operation with Built-in and External Batteries

Pilot Scout 4.0 may continuously function up-to 170~200 minutes with a built-in battery (e.g., based on result from the 2 channel MO/MT test) or at least 5 hours with an external battery.

## Multiple Network Technologies and Services Supported

Pilot Scout 4.0 supports 2G, 3G, 4G, 5G network technologies and multiple services test (FTP, HTTP, Video Play, Ping, Email, Speed test), which include the latest voice and data services and POLQA MOS. OTT applications test (Skype, Instagram, Facebook app, WhatsApp and YouTube) is available up-to 4.5G. Its advanced modular design and flexible module configuration allows user's customization requirements to be met.

## Test Status monitoring with Pilot Watcher

- Pilot Watcher tablet can be connected to Pilot Scout through WiFi hotspot for real-time monitoring.
- Monitors events, network parameters, and measurement routes with GPS positioning.
- Displays Pilot Scout current measurement information, edits and updates the test plans.
- Connects the WiFi shared by Pilot Scout 4.0