

## NSC-100 Quick Start Guide



**Power and Pair buttons**

**Power and Pair indicators**

**Service and Network indicators**

**Status indicators**

### Benefits

- Simply test everything anywhere – PON, Ethernet, WiFi
- Verify true customer experience and physical network layer on all PON1, Ethernet, and WiFi test interfaces
- Confirm PON service delivery is good before troubleshooting the premises
- Share reports directly via email
- Drive compliance of both direct and contracted staff with centralized, cloudbased workflow and result management

### Features

- GPON, XGSPON, Ethernet and WiFi tests, including throughput tests up to 2 Gbps
- Ethernet 1G, 2.5G, 5G and 10G interfaces
- 3x3 WiFi antenna with 2.4 & 5GHz
- PON data analysis (PON-ID)
- PON power levels
- Job Manager

### Preparation for use

When you unpack the unit, do the following:

- Inspect the unit for damage. If damaged, put back in box and contact VIAVI customer service (see the Technical Assistance section on the next page).
- If undamaged, save the box and packing materials in case you need to ship the unit in the future.

Before using the unit for the first time, do the following:

- Turn the unit ON.
- If the **Power** indicator is red, charge the battery.

### Status indicators

The indicators on the unit show the battery and network connect status, as follows:

**Power** – Indicates the power or battery status

- **Blinking green** – Powering up or down
- **Solid green** – Unit is on
- **Solid yellow** – Battery remaining is less than 30%
- **Solid red** – Battery remaining is less than 10%
- **Flashing red** – Battery is very low and unit will shutdown soon

**Pair** – Indicates the Bluetooth radio status

- **Blinking** – Waiting for pairing
- **Solid** – Paired with the mobile device

**Service** – Indicates the status of the service tests

**Network** – Indicates the the status of the service tests

**Link** – Indicates the status of the service tests

**Physical** – Indicates the status of the physical layer

**SFP** – Indicates the SFP+ port is the active port for the current test

**ETH** – Indicates the ethernet port is the active port for the current test

**WiFi** – Indicates the WiFi interface is the active interface for the current test

**CHG** – Indicates the charge status. The indicator is off when the unit is not plugged in or charging.

- **Blinking orange** – Charging, battery is less than 90%
- **Solid orange** – Charging is almost complete
- **Solid green** – Charge complete
- **Flashing red** – Error in charging or powering the unit. Make sure you are using the VIAVI charger supplied with the unit and try again.

The meter may need to be serviced by a Certified Repair Center. Before sending in the unit for repair, contact VIAVI for an RMA.

### Power and Pair buttons

The **Power** and **Pair** buttons are found near the top of the unit.

**Pair** – Press to pair with a Bluetooth device

**Power** – Press to turn the Companion on or off

**Play** – Used for the **Delayed Start** testing feature. See the *User's Guide* for more information.



### Bottom view

**SFP+ optical port**

**Ethernet port (10/100/1000 Mbps)**

**USB 3.0 port (Type A)**

**USB-C charge port**

**Protective rubber door**



### Charging the battery

Connect the supplied AC adapter to the USB-C port on the unit to power the Companion or charge the battery. A full charge could take up to an hour or so.

### Test modes

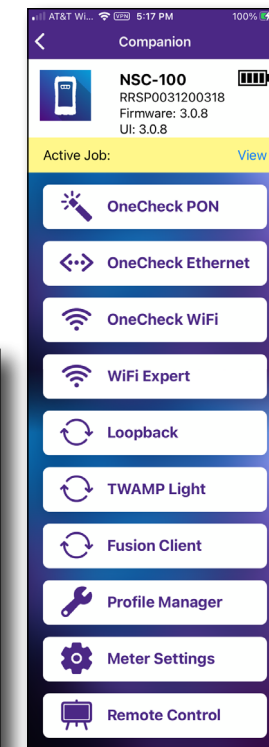
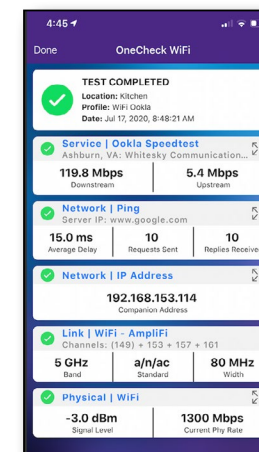
The Companion has a simplified test structure: OneCheck PON, OneCheck Ethernet, OneCheck WiFi, WiFi Expert, Loopback, TWAMP Light, and Fusion Client features to provide autotests and troubleshooting via the VIAVI Mobile Tech app.

Run OneCheck for comprehensive autotests of your network and access points. Select a test from the Companion Main menu, then select a profile to test.

#### Using the OneCheck dashboard

OneCheck provides a comprehensive dashboard that shows results for Speedtests, Ping, Network, GPON, WiFi access Points, etc.

For each panel in OneCheck, you can get more test result details by touching the panel.



## Using the Companion with a mobile device

The Companion is designed to be paired with a mobile device or tablet (such as an iPhone, iPad, or similar Android device), and leverages the user interface of those devices along with the **VIAVI Mobile Tech app** to provide a smooth user experience.



Mobile Tech

You can view test results, set up the Companion, sync files, update the meter, and configure test parameters from the app.

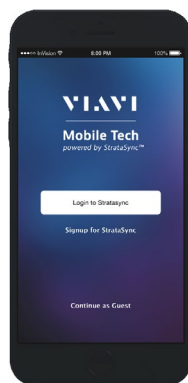
To get started, download the VIAVI Mobile Tech app from the App Store or Google Play.

## Connecting to StrataSync

You can connect to StrataSync using your smartphone or tablet anytime, anywhere using the VIAVI Mobile Tech app.

Once your instrument is connected to the Mobile Tech app via Bluetooth, geo location information can be added to reports and files when syncing to StrataSync. If configuration files or work orders are set to be deployed from StrataSync to your meter, you can check those here, as well as browsing files from the unit itself.

Once you download the application, log in to StrataSync just as you do on the website. To operate the tests, follow the instructions on the application screens.

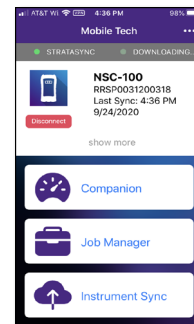
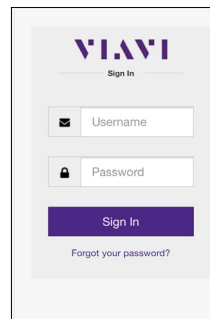
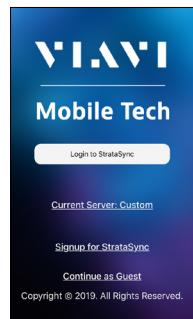


## Using the Mobile Tech app

### Logging in to StrataSync

To get started using the Mobile Tech app, you need to log in to StrataSync.

1. Launch the **Mobile Tech app** on your mobile device.
2. Select the **Login to StrataSync** button. The Login screen will be displayed.
3. Enter your Username and Password, then select the **Sign In** button. The Mobile Tech **Main menu** will be displayed.



### Pairing the Companion to your mobile device

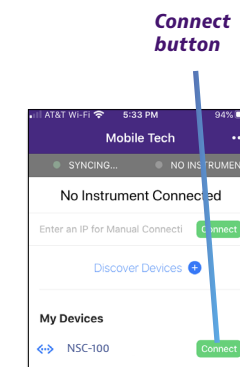
To control the user interface of the Companion, the mobile device must be paired with the unit over Bluetooth.

1. On the Companion, press and hold the **Pair** button for 3 seconds to enter pairing mode. The blue **Pair** indicator blinks.
2. On the mobile device, do the following:
  - Go to the **Settings** menu, then select **Bluetooth**.
  - Verify that the device is not paired with **any** NSC-100 Companion unit.
3. From the Mobile Tech Main menu, under **My Devices**, find the Companion, shown as "NSC-100", and select **Connect**.

If you don't see the device, you may need to select **Discover Devices**.

4. When the Companion is connected, the **Pair** indicator will be solid.
5. On the mobile device, the Companion should be paired and the Main menu will now show the Companion menu.

You can now control the instrument through the Mobile Tech app and run all tests on the Companion.

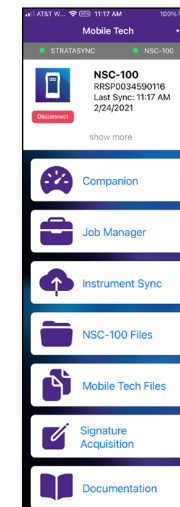
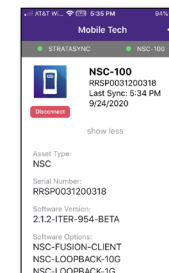


## Mobile Tech Main menu

In the Main menu, you can see details of the instrument, run Companion tests, sync to StrataSync, manage files on the unit, and even view documentation.

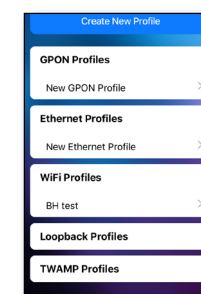
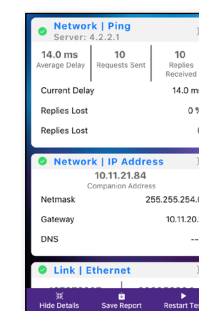
You'll also see the date and time of the last time your meter synced to StrataSync.

Near the top of the Main menu, you can select **Show more** to see details on your instrument, including all of the installed options.



- **Companion** – Run tests and configure profiles for the Companion

Before doing any tests, you may need to set up profiles for your network. See the *User's Guide* for more information about the **Companion > Profile Manager** menu.



- **Job Manager** – Attach jobs to tests, including customer info and work orders, and track test results
- **Instrument Sync** – Sync your instrument to StrataSync and deploy configuration files
- **NSC-100 Files and Mobile Tech Files** – Manage the files on the unit you can save to your phone or tablet. Use the **NSC-100 Files** menu to manage files stored on your meter, use the **Mobile Tech Files** menu to manage those stored on your mobile device.
- **Documentation** – View and download various documentation for your instrument, including applications notes, software release notes, and quick reference guides



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