

## ROGUE™ TURBO™ OLTS and Certification Test Set Quick Reference Guide

### ROGUE Carrier Hardware Overview



#	Feature	Description
1	Strap Eyelet	Used to attach an adjustable carry strap.
2	Mini-USB Function Port	May be used to connect the ROGUE device to a PC for downloading and managing test data, updating User Interface software or for remote control of the device.
3	USB Host Port	Allows connection to USB devices (keyboard, flash drive, etc.)
4	Key Slot	Used to mount a Kickstand accessory on the ROGUE Carrier.
5	Touch Screen Display	Contains on-screen controls and menus; allows to select parameters/functions and control the operation of the Carrier.
6	Function Buttons	Used to perform specific tasks. The functionality of these buttons depends on the active test mode/screen.
7	Power Button	Press and hold (~2 seconds) to turn power on or off.
8	AC/Charger Indicator	When ON, indicates that an AC adapter is connected to the ROGUE device: <b>Red</b> light - rechargeable battery is charging; <b>Green</b> light - rechargeable battery is fully charged.

#	Feature	Description
9	Guide Rails	Used to mount a Module on the ROGUE Carrier.
10	Slot for Module	This slot accepts one of the ROGUE Modules.
11	Module Interface Connector	This connector interfaces with a test module, providing power and passing control and data signals between the carrier and module. It is located inside the case, at the bottom of the slot that holds the module.
12	Battery Compartment	Holds removable/rechargeable Li-ion battery.
13	AC/Charger Port	This is an interface for the AC power adapter/charger.

## Battery Charging and Operation

ROGUE device can simultaneously operate and charge the internal battery while connected to the provided AC adapter/charger.

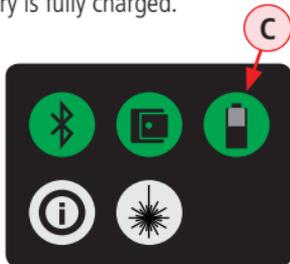
To connect the AC adapter/charger:

- Plug the AC adapter/charger into a standard wall outlet.
- Connect the AC adapter/charger to the power port located on the ROGUE device side panel **A**.
  - The AC/Charger indicator **B** turns RED while battery is charging.
  - The AC/Charger indicator turns GREEN when battery is fully charged.

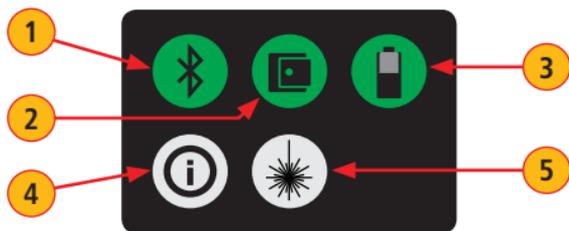


The battery icon on the ROGUE device display **C** indicates the battery status and shows percentage of the remaining battery charge as follows:

- Green = >50%,
- Yellow = 20% - 50%,
- Red = <20%



## Touch Screen Display Features



#	Icon	Function
1	 	<b>Bluetooth Connectivity</b> - Pressing this icon will display the Bluetooth pairing screen. Color code indicates pairing status: Red = Bluetooth off. Green = Paired with a smart device and the TURBO™ App is running.
2	 	<b>Module Connection</b> - Pressing this icon will provide information on the serial number and description of the installed module. Color code: Red = Module is not connected. Green = Module is connected.
3	  	<b>Battery/Power Level</b> - This icon will indicate current charge level. Color code: Green = >50% Yellow = Between 20% and 50% Red = <20%
4		<b>Carrier Information</b> - Pressing this icon provides options to display the following information: Module Version (if installed), Carrier Version, Legal Information.
5	 	<b>VFL port</b> - Only present if the installed Module has a VFL port. Color code: White = VFL port is Off. Green = VFL port is On.

## TURBO™ Module Ports and Features

Mated with the Carrier, the TURBO Module is capable of measuring uni-directional or bi-directional loss on each test port, fiber span length, and optical return loss (single-mode only). The TURBO Module may contain up to four (4) optical ports: up to two test ports (1 or 2 single-mode, 1 or 2 multimode, or multimode/single-mode), an OPM port, and a VFL port.



#	Feature	Description
1	Engine 1 Port, may be one of the following: <ul style="list-style-type: none"> <li>• SM1 (SM models)</li> <li>• MM1 (MM models)</li> <li>• MM (Quad models)</li> </ul>	<b>CLASS I LASER output. Do not stare into beam.</b> Engine 1 Port, depending on a model, may be 1310/1550 nm single-mode or 850/1300 nm multimode. This port accepts one of four UCI (universal connector interface) connector adapters (FC, SC, ST, LC). It is used for of measuring uni-directional or bi-directional loss, fiber span length, and optical return loss (ORL).
2	OPM Port	Optical power peter port. This port is used for power (dBm, W) or loss (dB) measurements.
3	VFL Port	<b>CLASS II LASER output. Do not stare into beam.</b> The VFL (visual fault locator) port is a 650 nm (red) laser. This port accepts 2.5 mm universal adapter, which couples the VFL laser output into the fiber under test. This port is used for locating faults on shorter fiber spans.

## TURBO™ Module Ports and Features

#	Feature	Description
4	Engine 2 Port, may be one of the following: <ul style="list-style-type: none"><li>• SM2 (SM models)</li><li>• MM2 (MM models)</li><li>• SM (Quad models)</li></ul>	<b>CLASS I LASER output. Do not stare into beam.</b> Engine 2 Port, depending on model, may be 1310/1550 nm single-mode or 850/1300 nm multimode. This port accepts one of four UCI (Universal Connector Interface) connector adapters (FC, SC, ST, LC). It is used for of measuring uni-directional or bi-directional loss, fiber span length, and optical return loss (ORL).
5	Dust Cap	Used to protect optical ports from dust and damage.
6	Latch Mechanism	Used to provide a secure engagement between the Carrier and the installed Module.
7	Carrier Interface Socket	This connector interfaces with the matching plug on the Carrier unit, providing connection to the Carrier and allowing data transfer between the Module and Carrier.

## Installing a ROGUE Module

- On the Module: make sure that the latch is open and turned counter-clockwise as shown in **A**.
- Starting from the Carrier top, align bottom of the Module guiding tracks with top of the Carrier guiding tracks.
- Slide the Module into the Carrier until it is completely inserted in the Module Slot.
- Turn the latch clockwise and close it as shown in **B**.

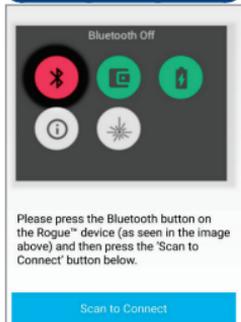


## Bluetooth Pairing – Connecting to a ROGUE™ Device



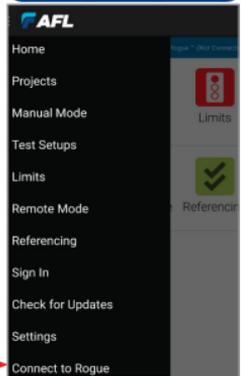
A

### Connection screen



B

### Main Menu screen



C

Pairing your ROGUE device to a smart device is necessary to perform testing.

To pair complete the following steps:

1. On your smart device, launch the TURBO™ app.
2. Home screen is the first screen you see on the app startup.
  - If your smart device is not paired to the ROGUE device, notice how the connection status **A** indicates 'Not Connected'.
  - Tapping on the connection status field **A** will display the Connection screen **B**.
  - Alternatively, the Connection screen **B** may be accessed from the Main menu by selecting the 'Connect to ROGUE' option **C**.
3. **On your ROGUE device:**
  - Notice that the Bluetooth icon **D** displayed in Red (not connected).
  - Tap the Bluetooth icon **D**.

### ROGUE display



D

## Bluetooth Pairing – Connecting to a ROGUE™ Device

### ROGUE display



### Connection screen



- You should see that a QR code **E** appears on the ROGUE display.

#### 4. On your smart device:

Tap on the Scan to Connect **F**.

#### 5. Align your smart device camera over the ROGUE display to scan the QR code.

#### 6. On your ROGUE device:

- You should see the 'Connected' confirmation **G**, and then display changes to show the Home screen.

- After successful pairing, the Home screen will indicate the name of the device that is currently paired **H** and display the Bluetooth icon **J** in Green (connected).

#### 7. On your smart device:

- Tap Done **K**.
- When back in the Home screen, notice that connection status **L** now indicates that you are connected to the ROGUE device.

### Home Screen



## Signing in to aeRos User Account

### Home screen

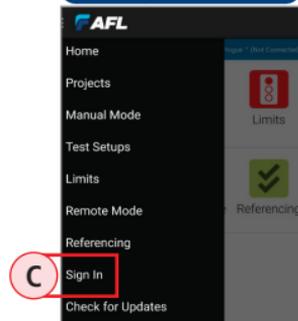


Once the TURBO™ app is launched on a smart device, the Home screen is the first screen you see on the application startup. If you haven't logged in to aeRos, notice that connection status **A** indicates 'Not Connected'.

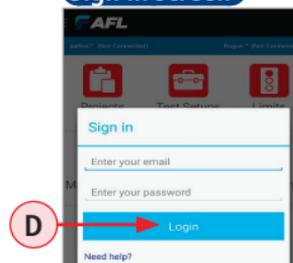
### Perform the following steps:

1. From the Home screen, display the Main menu by touching the Menu icon **B**.
2. From the Main menu, tap 'Sign In' **C**.
3. When prompted, enter your email and password, and then tap Login **D**.
4. When back in the Home screen, notice that connection status **E** now indicates that you are connected to the aeRos cloud.
5. Also once connected, notice that Main menu screen will display your Sign in credentials and your organization name **F**.

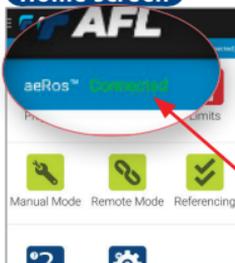
### Main Menu screen



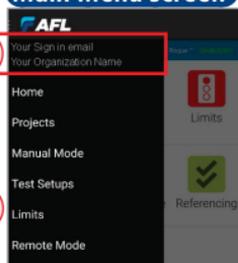
### Sign in screen



### Home screen



### Main Menu screen



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