Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176

IDEAL NETWORKS

TestEquipmentDepot.com



SignalTEK 10G

10G Ethernet Troubleshooter and Bandwidth Tester

Quick Reference Guide

Proof of Performance

SignalTEK 10G

Quick Reference Guide

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Introduction

The new SignalTEK 10G measures the maximum bandwidth of the network and data cabling up to 10 Gigabits per second. By simulating actual network traffic users can test, troubleshoot and document network and data cable performance up to 10 Gigabit Ethernet standards.

SignalTEK 10G has Wi-Fi connectivity to connect seamlessly to the free AnyWARE Cloud test management software. AnyWARE Cloud offers pre-configuration, label printer connectivity and PDF report generation.

Key Functions



Home Screen



Test Count is the number of tests saved/ USB device status

Stats, Online Help and Settings

Active job name, total number of tests and progress bar
Red = Fail
Green = Pass
Grey = Untested

Last Test Completed with Pass/Fail Status

Test Interface Selection

Display and Remote Unit Interface and Information

Display and Remote ports connection information

SYNC to upload/ download tests to AnyWARE Cloud or export to USB drive

JOBS menu displays all jobs stored on the tester



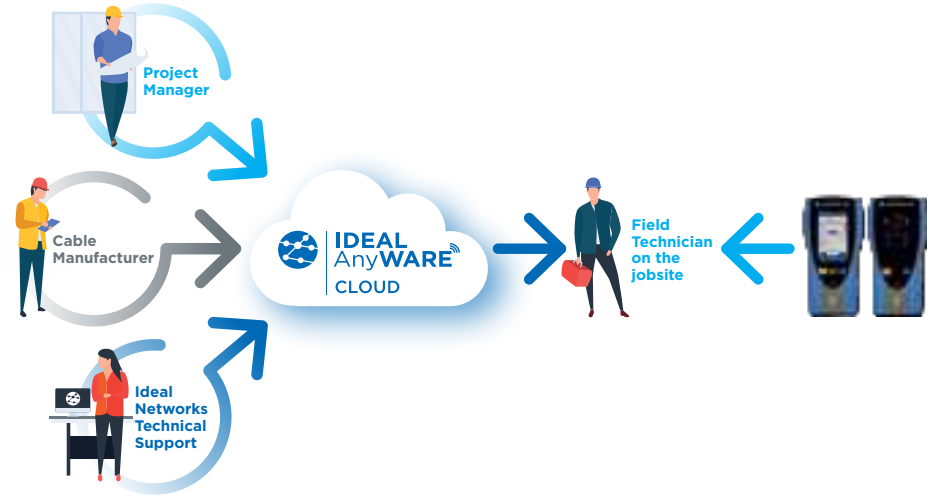
Click to view current test information



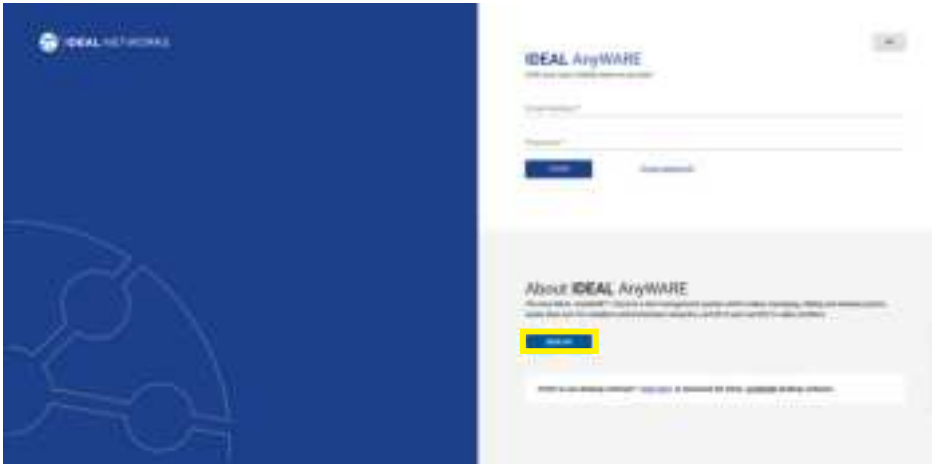
IDEAL AnyWARE Cloud

IDEAL AnyWARE CLOUD allows management of projects using the SignalTEK 10G

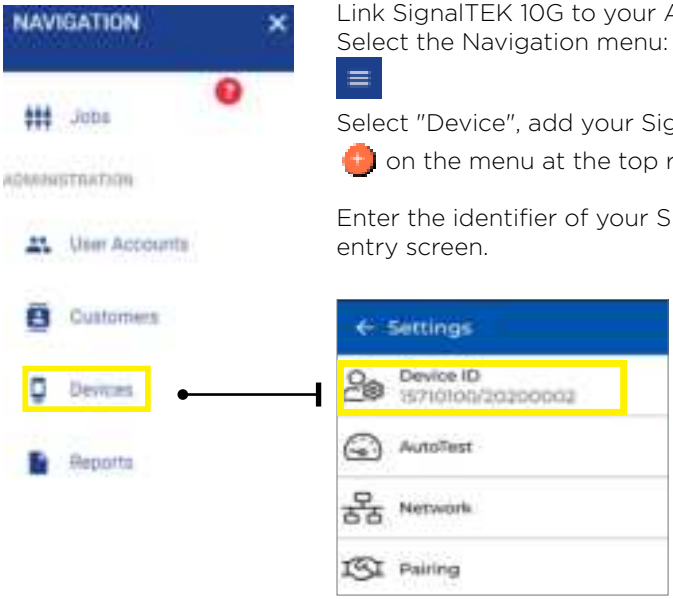
1. Who has the certifier
2. Date of last software update
3. When the results were last synchronized



With IDEAL AnyWARE Cloud, you no longer have to download and install test management software to a PC.
Create an account at https://anyware.idealnetworks.net
Please use: Google Chrome, Microsoft Edge, or Mozilla Firefox.



IDEAL AnyWARE Cloud



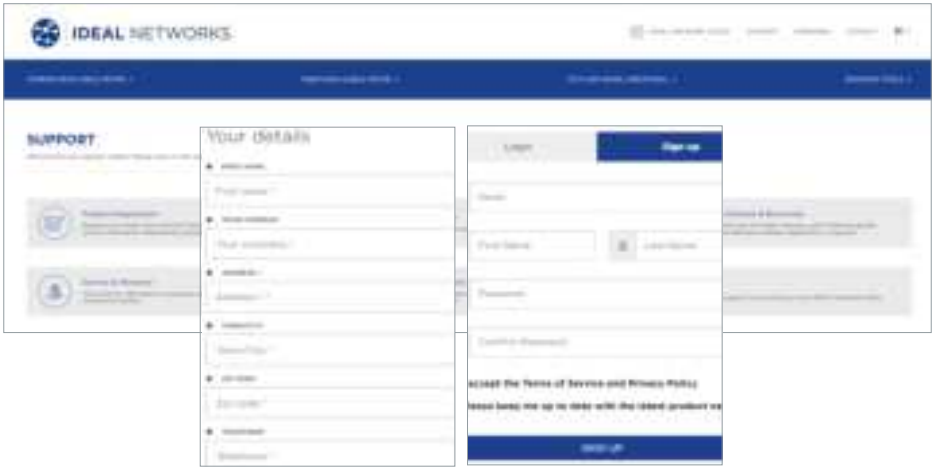
Link SignalTEK 10G to your AnyWARE account.
Select the Navigation menu:

Select "Device", add your SignalTEK 10G with on the menu at the top right.

Enter the identifier of your SignalTEK 10G via the entry screen.

Please register your SignalTEK 10G

An account is required to download software and documentation.



Getting Started

Before you start using your SignalTEK 10G, follow the steps below to ensure you take advantage of all the features your SignalTEK 10G has to offer.

1. Press the power button on both units.
2. Fully charge the display and remote units using the power supply included in your case.
3. Connect the display and remote units using the supplied ethernet cable.



4. Choose your language via **Settings - Set Language.**
5. Pair the remote unit with the display unit via **Settings - Pairing.** The status connection will light up blue once successfully paired.
6. Set the link speed to *Auto* in the display unit via **Settings - Network - RJ45 - Link Speed**
7. Cable Qualification Test: Connect the display unit directly for cable qualification test
8. Network Bandwidth Qualification Test: Connect the display unit and the remote unit to the network (switches)
9. IP Network Test: Connect the display unit to the network and set the IP address to *Dynamic (DHCP)* via **Settings - Network - IPv4 - IP Assignment**
10. For optical interface involved test, make sure the SFP used with the tester is matching the fiber and other SFP's type and signal level within the Rx power range. MGK series SFP Kit (to be ordered separately) is recommended to assure the correct measurement results.

Transmission - Cable Data Test

1. Connect a cable under test (Fibre duplex/simplex via SFP or Copper) between display and remote units.



2. Pair the remote unit with the display unit via **Settings - Pairing.** The status connection will light up blue once successfully paired.
3. Set link speed to *Auto* via **Settings - Network - RJ45 - Link Speed**
4. Click: **ANALYZE - Cable Data - Settings -** *Expected line rate 10G and frame size 1518* **- Tick -** Return to test page - press **Test**
5. Save the results



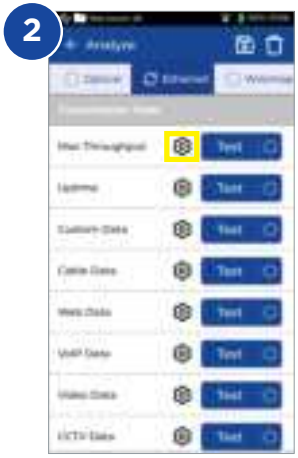




Transmission - Max Throughput Test

1. Connect both display and remote units to the network or cable under test
2. Pair the remote unit with the display unit via **Settings - Pairing.** The status connection will light up blue once successfully paired.
3. Set the link speed to *Auto* in the display unit via **Settings - Network - RJ45 - Link Speed**
4. Select Test template on different frame size
5. Select Pass/Fail limit via a set of standard limit or custom limit and save change
6. Run the **Test** and flip graphic results to tabular
7. Save the results









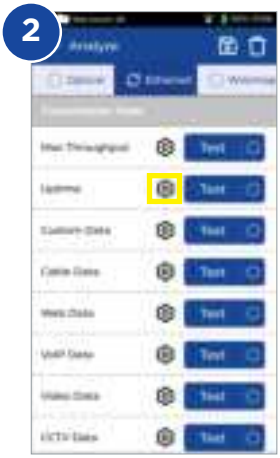




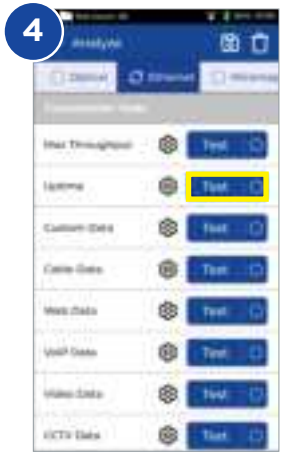
Transmission - Uptime Test

1. Connect both display and remote units to the network or cable under test
2. Pair the remote unit with the display unit via **Settings - Pairing.** The status connection will light up blue once successfully paired
3. Set the link speed to *Auto* in the display unit via **Settings - Network - RJ45 - Link Speed**
4. Set up bandwidth, frame size and test duration in **Custom Data** settings
5. Use default frame loss count 0 as Pass/Fail limit and save all changed setup
6. Press **Test** key to run the test
7. Save the results









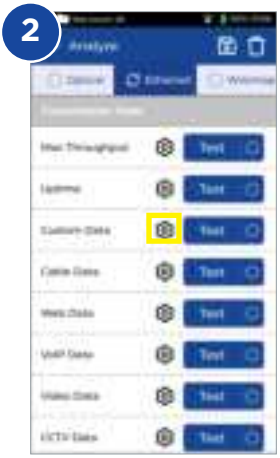




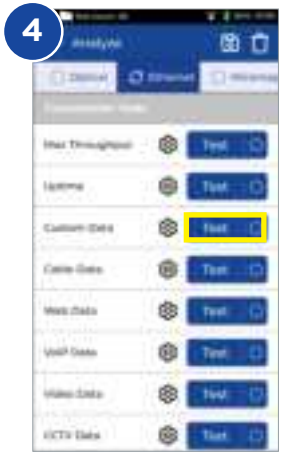
Transmission - Custom Data Test

1. Connect both display and remote units to the network or cable under test
2. Pair the remote unit with the display unit via **Settings - Pairing.** The status connection will light up blue once successfully paired
3. Set the link speed to *Auto* in the display unit via **Settings - Network - RJ45 - Link Speed**
4. Set up bandwidth, frame size and test duration in **Custom Data** settings
5. Use default frame loss count 0 as Pass/Fail limit and save all changed setup
6. Press **Test** key to run the test
7. Flip graphic presentation to detailed tabular results view
8. Save the results









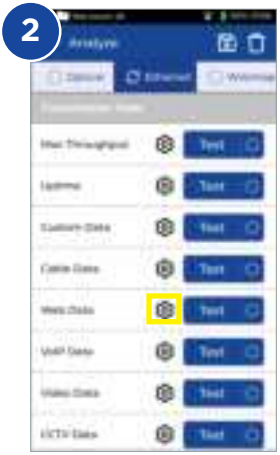




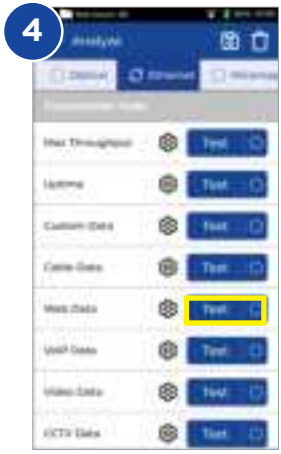
Transmission - Web Data Test

1. Connect both display and remote units to the network or cable under test
2. Pair the remote unit with the display unit via **Settings - Pairing.** The status connection will light up blue once successfully paired
3. Set the link speed to *Auto* in the display unit via **Settings - Network - RJ45 - Link Speed**
4. Set up No. of sessions, frame loss type & Limit and test duration in **Custom Data** settings
5. Press **Test** key to run the test
6. Packet loss and jitter/delay info will be presented
7. Save the results









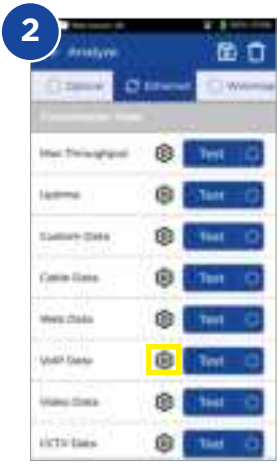




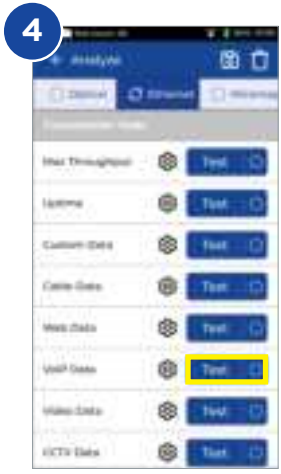
Transmission - VoIP Data Test

1. Connect both display and remote units to the network or cable under test
2. Pair the remote unit with the display unit via **Settings - Pairing.** The status connection will light up blue once successfully paired
3. Set the link speed to *Auto* in the display unit via **Settings - Network - RJ45 - Link Speed**
4. Set up number of calls, frame loss type & Limit and test duration in **VoIP Data** settings
5. Press **Test** key to run the test
6. Packet loss and jitter/delay info will be presented
7. Save the results













Transmission - Video Data Test

1. Connect both display and remote units to the network or cable under test
2. Pair the remote unit with the display unit via **Settings - Pairing.** The status connection will light up blue once successfully paired
3. Set the link speed to *Auto* in the display unit via **Settings - Network - RJ45 - Link Speed**
4. Set up No. of streams, definition, frame loss type & Limit and test duration in **Video Data** settings
5. Press **Test** key to run the test
6. Packet loss and jitter/delay info will be presented
7. Save the results







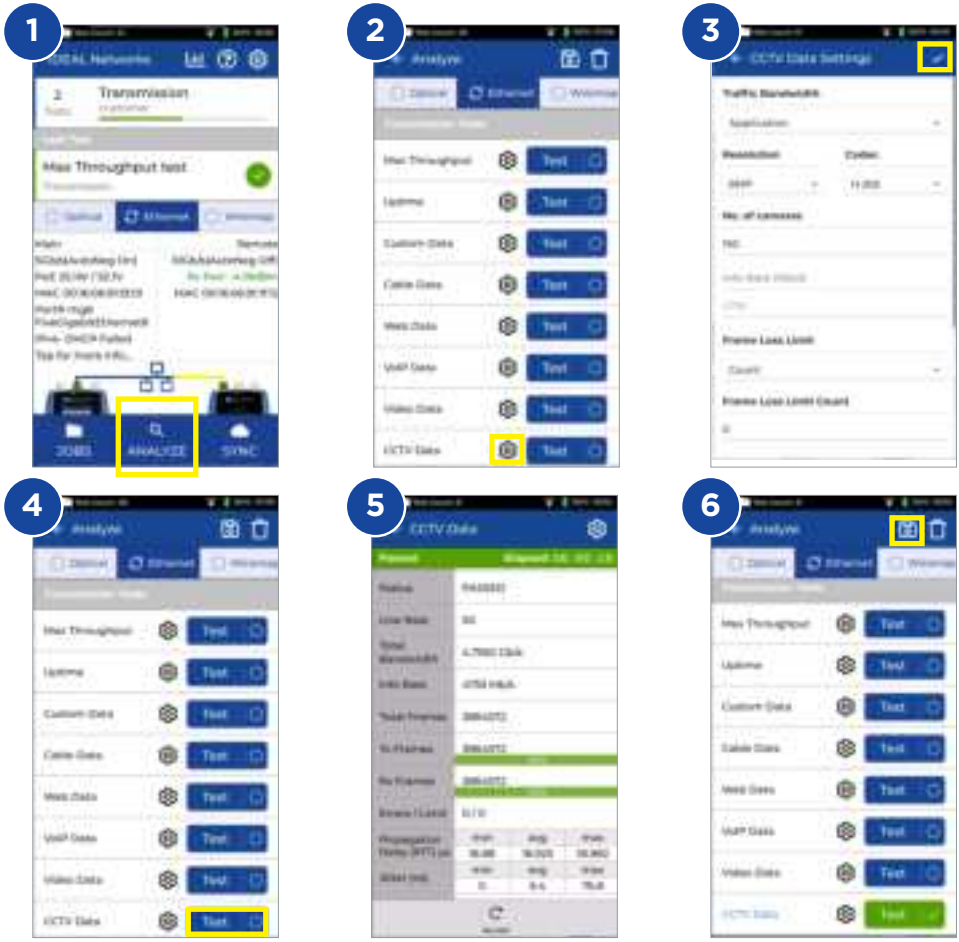






Transmission - CCTV Data Test

1. Connect both display and remote units to the network or cable under test
2. Pair the remote unit with the display unit via **Settings - Pairing.** The status connection will light up blue once successfully paired
3. Set the link speed to *Auto* in the display unit via **Settings - Network - RJ45 - Link Speed**
4. Set up No. of Cameras, Resolution, codec, frame loss type & Limit and test duration in **CCTV Data** settings
5. Press **Test** key to run the test
6. Packet loss and jitter/delay info will be presented
7. Save the results



Network Test - PING4 and PING6

1. Connect the display unit to the network under test
2. Set the link speed to *Auto* in the display unit via **Settings - Network - RJ45 - Link Speed**
3. Set the IP address to *Dynamic (DHCP)* via **Settings - Network - IPv4 - IP Assignment**
4. After the unit link up and acquired IP address, the tester is ready to setup
5. Set up number of PING running, Pause time, packet size and Target URL
6. Press **Test** key to run the test
7. To check PING result detail, click the destination URL to have more detailed info. Repeat procedure for PING 6 Test
8. Save the results













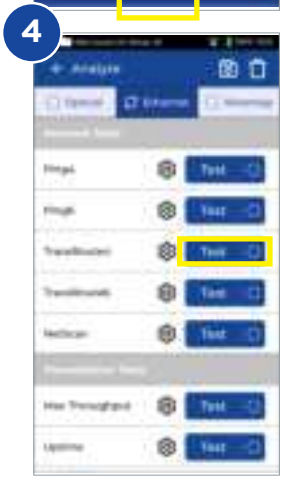
Network Test - Trace Route

1. Connect the display unit to the network under test
2. Set the link speed to *Auto* in the display unit via **Settings - Network - RJ45 - Link Speed**
3. Set the IP address to *Dynamic (DHCP)* via **Settings - Network - IPv4 - IP Assignment**
4. After the unit link up and acquired IP address, the tester is ready to setup
5. Set up the target of Trace Route URL, max hop, type and time out
6. Press **Test** key to run the test
7. Save the results
8. Repeat procedure for Trace Route 6 Test









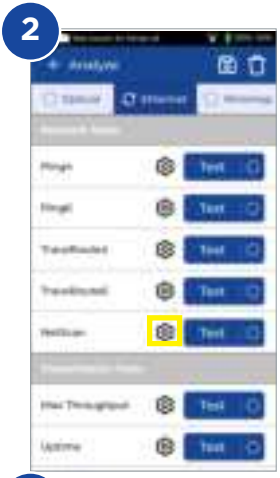


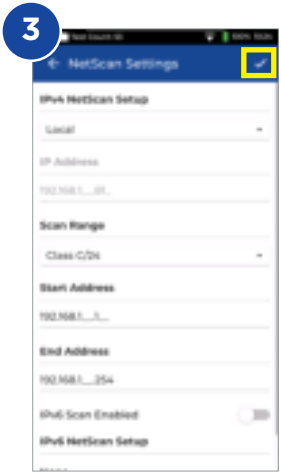


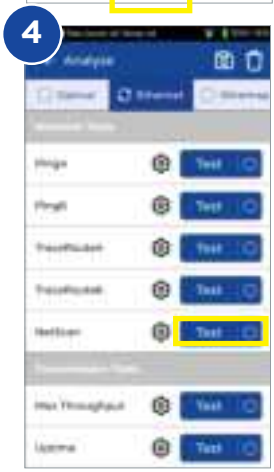
Network Test - NetScan

1. Connect the display unit to the network under test
2. Set the link speed to *Auto* in the display unit via **Settings - Network - RJ45 - Link Speed**
3. Set the IP address to *Dynamic (DHCP)* via **Settings - Network - IPv4 - IP Assignment**
4. After the unit link up and acquired IP address, the tester is ready to setup
5. Press **Test** key to run the test with list of network devices detected
6. Change the result presentation from IP address to MAC address
7. Save the results
8. IPv6 Netscan can be done in the same procedure













PoE Test

1. Connect the display unit to the network or device under test
2. Set the unit IP address in DHCP via **Settings - Network - IPv4**
3. Set link speed to *Auto* via **Settings - Network - RJ45 - Link Speed**
4. After the unit link up the tester is ready to setup
5. Set up the PoE standard if required
6. Press **Test** key to run the test
7. Step up the max value of the PoE load if required in the result page
8. Save the results







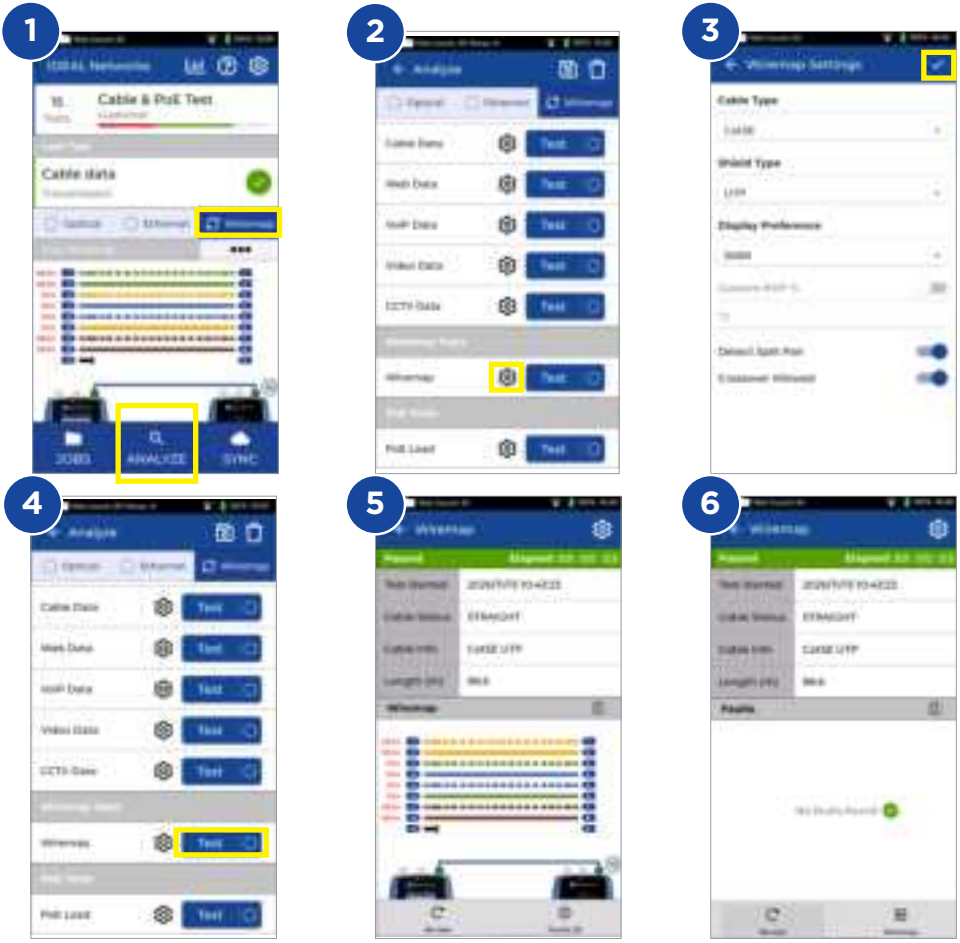






Wiremap Test

1. Connect both display and remote units to the cable under test
2. Select **Wiremap** interface
3. Set the **Wiremap** test via **ANALYZE**
4. Set the cable type, Shield type, Display preference, Splitter and crossover allowed then to save
5. Run Wiremap test and flip result page between graphics and tabular
6. Save the results



Creating a Test Report

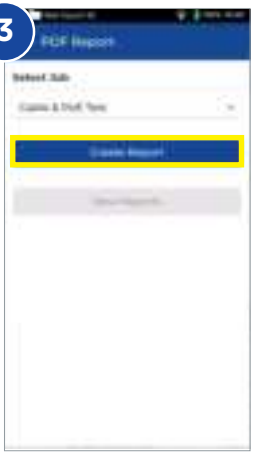
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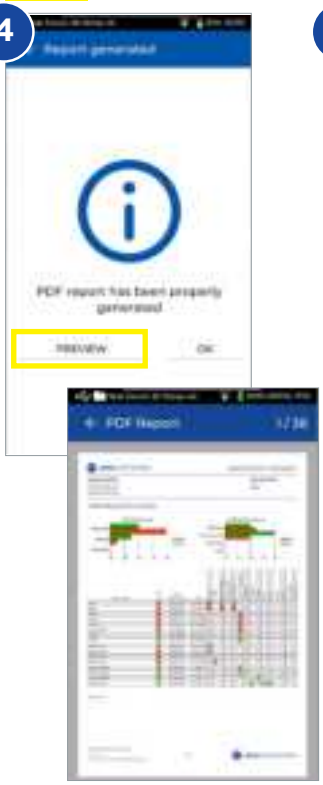
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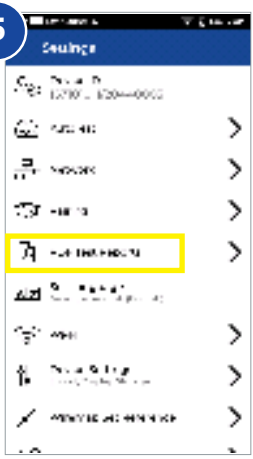
3



4



5



6



Creating a Job

1



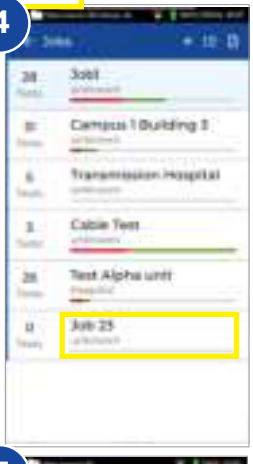
2



3



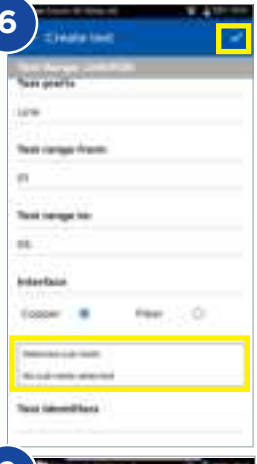
4



5



6



7

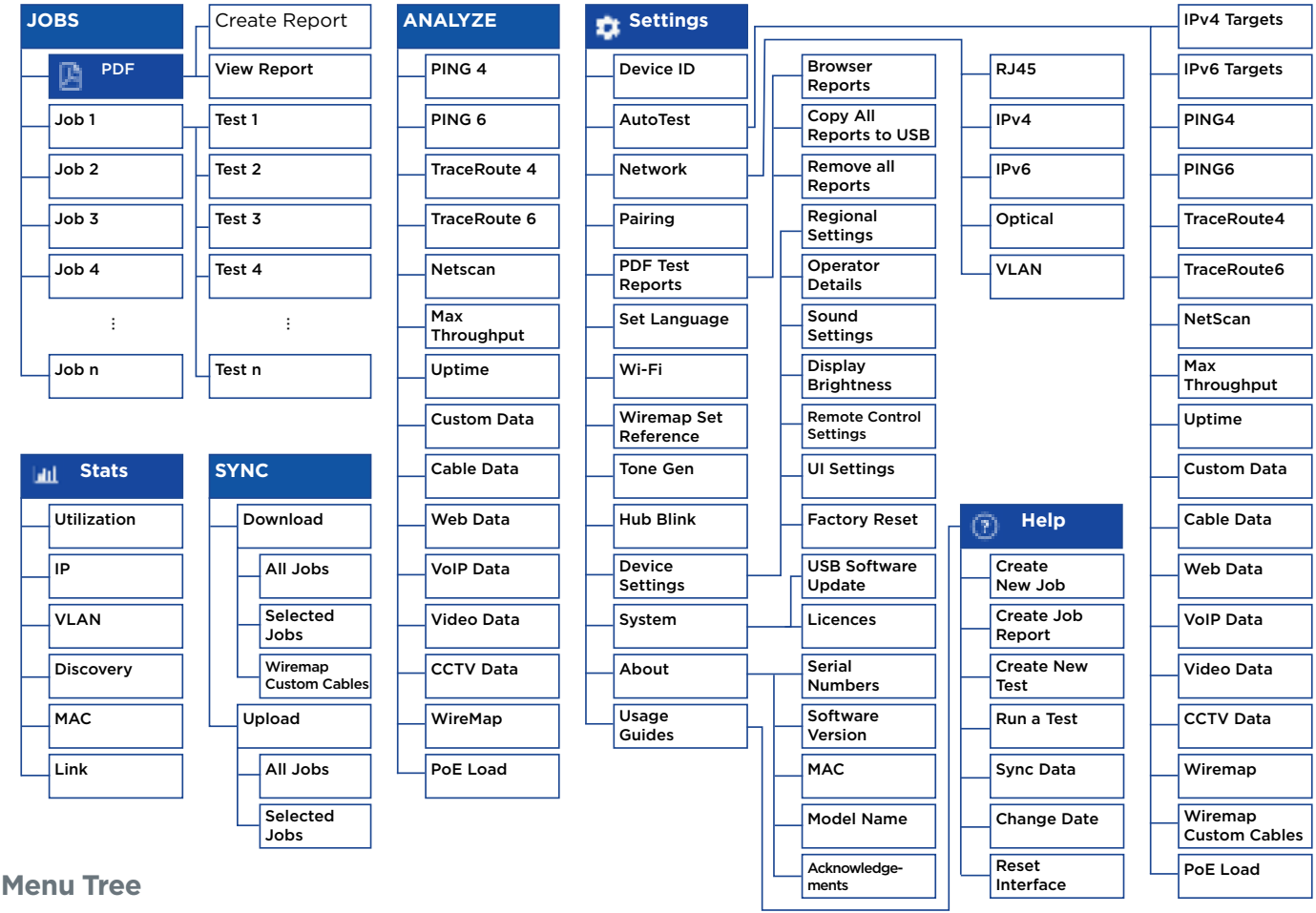


8



9




JOBS
PDF
Job 1
Job 2
Job 3
Job 4
Job n
Create Report
View Report
Test 1
Test 2
Test 3
Test 4
Test n
Stats
Utilization
IP
VLAN
Discovery
MAC
Link
SYNC
Download
All Jobs
Selected Jobs
Wiremap Custom Cables
Upload
All Jobs
Selected Jobs
ANALYZE
PING 4
PING 6
TraceRoute 4
TraceRoute 6
Netscan
Max Throughput
Uptime
Custom Data
Cable Data
Web Data
VoIP Data
Video Data
CCTV Data
WireMap
PoE Load
Settings
Device ID
AutoTest
Network
Pairing
PDF Test Reports
Set Language
Wi-Fi
Wiremap Set Reference
Tone Gen
Hub Blink
Device Settings
System
About
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Browser Reports
Copy All Reports to USB
Remove all Reports
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Operator Details
Sound Settings
Display Brightness
Remote Control Settings
UI Settings
Factory Reset
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Serial Numbers
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MAC
Model Name
Acknowledge-ments
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IPv6
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Wiremap
Wiremap Custom Cables
PoE Load
Help
Create New Job
Create Job Report
Create New Test
Run a Test
Sync Data
Change Date
Reset Interface

Menu Tree

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CE

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E&OE
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