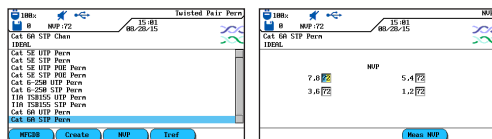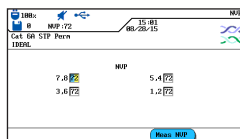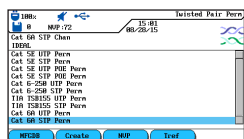## Section 4: Cabling Type Setup (continued)

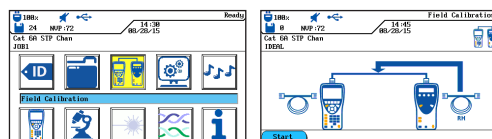**21.** Highlight desired Cable Test Standard.

22. If necessary, press F3 (NVP) to adjust the NVP value. Press ENTER.
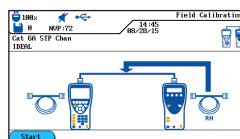

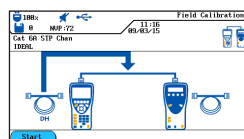**23.** Display will revert to cable selection menu. Press Escape to return to main menu.

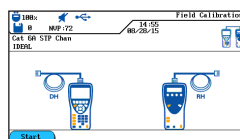## Section 5: Channel and non-RJ45 Permanent Link Field Calibration Process

24. Press F3 or highlight the Field Calibration icon, press Enter.
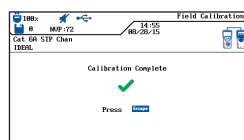

**25.** Connect Remote patch cord (pc) between the two units, press F1.

26. Disconnect Remote pc, connect Display pc between units, press F1. If the calibration fails at one of the steps, please check test cables and adapters.

27. Disconnect Display pc from Remote Handset, Connect Remote pc to Remote Handset, press F1 on Display Handset, **press Autotest on Remote Handset.**

28. Calibration Complete, press Escape.
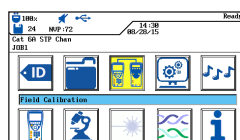
29. Tester is now setup for testing.

Pass/Fail Reporting

You are now ready to perform an AUTOTEST on the cable you have setup.

Overall Test Results

Link passed the test

Link failed the test

Note: A * or * means that one or more individual tests are closer to the limit line than the accuracy of the tester. In that case, the tester cannot clearly determine, if the parameter passes or fails.

Cable & Network Standards Table

Supported Network Application	Cabling Standard	Operating Frequency	Wire used	Cabling Bandwidth
10Base T	CAT3 ISO C	10 MHz RX on 3,6	TX on 1,2 RX on 3,6	16 MHz
100Base-TX	CAT5 ISO D	80 MHz RX on 3,6	TX on 1,2 RX on 3,6	100 MHz
1000Base-T	CAT5E ISO D	80MHz (half duplex)	TX & RX on all 4 pairs	100MHz
1000Base-TX	CAT6 ISO E	250 MHz (full duplex)	TX & RX on all 4 pairs	250MHz
10GBase-T	$CAT6_A$ $ISO\ E_A$	465 MHz	TX & RX on all 4 pairs	500MHz

Safety Warnings

Please also read the manual for a full list of safety warnings. Use the equipment only as specified in the manual!

WARNING	RISK
Do not throw batteries into fire or water and do not short-circuit the batteries' electrical contact. Do not disassemble.	Batteries could explode, resulting in serious injuries of persons.
Do not short-circuit charging devices or batteries.	Devices could explode or excessively heat up, resulting in serious injuries of persons.
Do not dispose batteries into the environment. Only dispose batteries at suitable places.	Batteries contain toxic chemicals which can harm the environment when improperly disposed.
Do not stare into the open port of fiber optic test adapters or into fiber optic connectors.	Light used for testing and transmitting information is not visible for the human eye. Serious damage of the eyes with possibly lost of sight may be caused.
Do not connect the tester to live ports.	Circuitry can be damaged – see specs in the manual

TREND NETWORKS

LanTEK®III
LAN Cable Certifier

Quick Reference Guide

For more information and manuals, visit www.trend-networks.com

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Power Up

Press the ON/Off key to turn on the Display Handset(DH).

Main Display
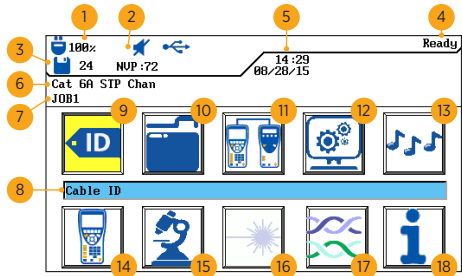
1 Battery Indicator
2 Talk Set Indicator
3 Memory Indicator
4 Screen Title
5 Date And Time
6 Test Standard
7 Active Project Title
8 Selected Function
9 Cable ID Icon
10 File Icon
11 Field Calibration Icon
12 Preference Icon
13 Tone Generator Icon
14 Instrument Inf. Icon
15 Analyze Icon
16 Fiber Optics Icon
17 Cabling Type Icon
18 Help Icon

Softkeys

Delete	Backspace	Insert	Select

Function keys

F6 F1	F7 F2	F8 F3	F9 F4	F10 F5

Five function keys positioned directly below the display allow the user to select a soft key action on the colour display.

Main Keys

DH Display Handset   RH Remote Handset

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1 AUTOTEST
2 CURSOR and ENTER
3 Function keys F1 – F5
4 Escape
5 ON/OFF
6 Shift
7 Wiremap/File
8 Length / Analyse
9 Talk / Call RH
10 Help / Language
11 Alphanumeric Keypad
12 Brightness
13 Tone / Tone Mode
14 Talk / Call DH

Overview of Link Testing Requirements

The following section describes a typical setup for permanent link testing for RJ45 twisted pair copper cables only. For specific requirements for fiber, coax and other special cabling testing, please refer to the user manual.

A permanent link consists of up to 90 meters of horizontal network cabling. The permanent link (shown below, from A to B) is used to certify the horizontal network cabling installation before network connection and user hookup take place. The Permanent Link Test excludes adapters, patchcords and jumpers.

RJ45 Permanent Link Testing Configuration

Permanent Link Adaptors

Beginning of Permanent Link

End of Permanent Link

### Channel Link and non-RJ45 Permanent Link Testing Configuration

For testing of channels (RJ45 and non-RJ45) as well as permanent links consisting of non-RJ45 components such as TERA or GG45, please use appropriate channel adaptors and patch cords instead of the above Permanent Link adaptors.

Please note that you must perform a field calibration process in that testing mode– see section 5.
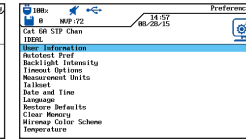
LanTEK III Setup Procedure

The following procedure will show you step-by-step how to setup the device. After completing the steps, you are all set to start testing using single button AUTOTEST on the Display or Remote Handsets.
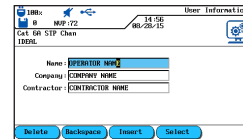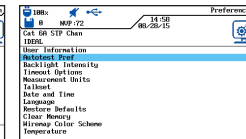

Section 1: Preference Setup
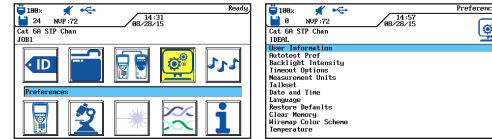
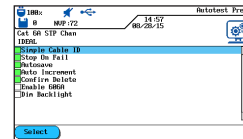**1.** Highlight Preferences icon, press Enter.

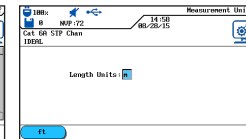**2.** Highlight User Information and press Enter.

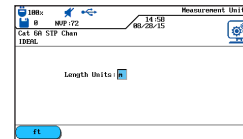**3.** Enter appropriate information, it will be reflected in the tests reports, press Enter upon completion.

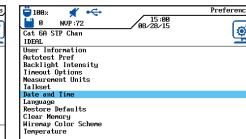**4.** Press down arrow to highlight Autotest Pref, press Enter.

5. Make changes as required, press Enter.
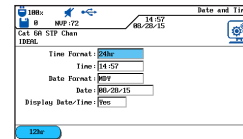

6. Highlight Measurement Units, press Enter.

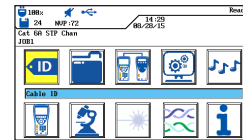**7.** Press F1 to toggle between meter and feet, or press Enter.

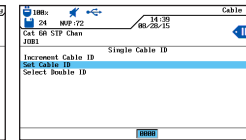**8.** Highlight Date and Time, press Enter.

9. Adjust date, time and display format if necessary and then press Enter.
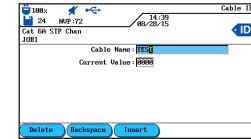
Section 2: Cable ID Setup

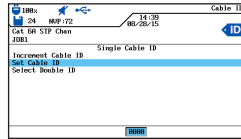**10.** Press F1 or highlight the Cable ID icon, press Enter.

11. Highlight Set Cable ID, press Enter.

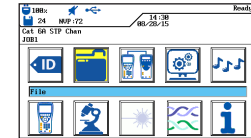---

Section 2: Cable ID Setup (continued)

12. Enter cable name and Current Value, use arrow buttons to go between Cable Name & Current Value, press Enter.
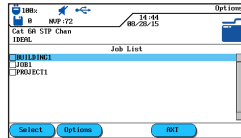

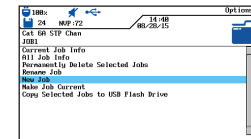**13.** The display will revert to the previous screen, Current Value is updated, press Escape.

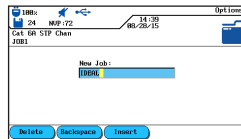## Section 3: Stored Tests, Project Naming and Selection
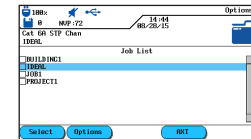

14. Highlight FILE and press Enter.

15. Press F2 for Options.

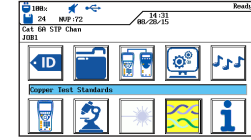**16.** Highlight New Job and press Enter.

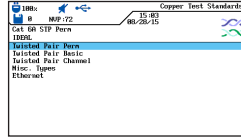**17.** Enter Job Name as required, press Enter.

18. Job list is updated, Current job updated, press Escape.

Section 4: Cabling Type Setup

19. Press Shift & F4 or highlight Cable Type icon and press Enter.

20. Highlight Twisted Pair Perm, press Enter.