



**IDEAL
NETWORKS**

LanTEK® III LAN Cable Certifier

QUICK REFERENCE GUIDE

*For more information and manuals,
visit www.idealnetworks.net*

IDEAL Industries Product Solutions UK
Stokenchurch House,
Oxford Road, Stokenchurch,
HP14 3SX High Wycombe,
United Kingdom

International offices:
Brazil • Canada • China
Germany • India • Mexico • UK • France

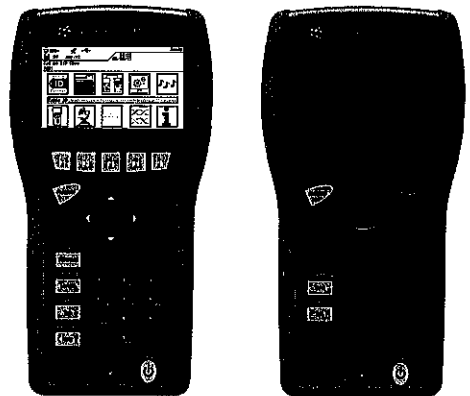
For complete sales office contact information, visit our web site.

Form No.
© 2015
IDEAL INDUSTRIES L.T.D

161801rev1
Printed in EUROPE

LanTEK® III LAN Cable Certifier

QUICK REFERENCE GUIDE

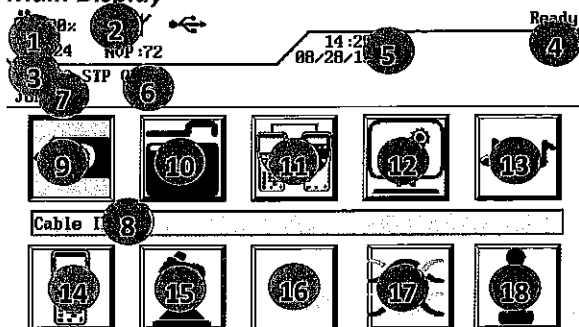


Proof of Performance

Power Up

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

Main Display



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

Softkeys

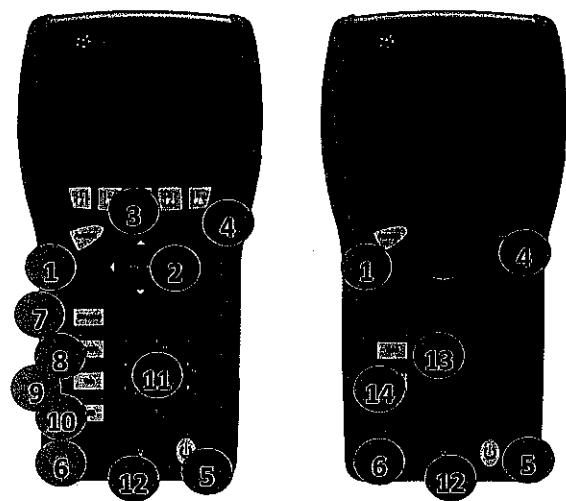


Function keys



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

Main Keys



DH Display Handset

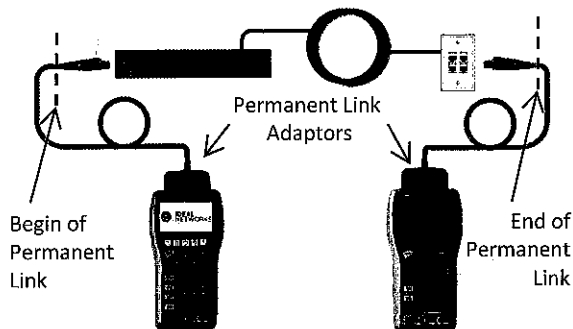
RH Remote Handset

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



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

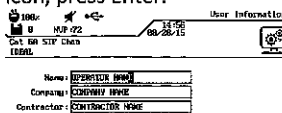
LANTEK III Setup Procedure

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.

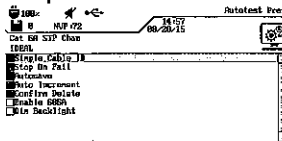
Section 1: Preference Setup



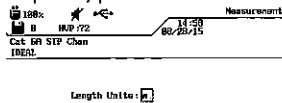
1. Highlight Preferences icon, press Enter.



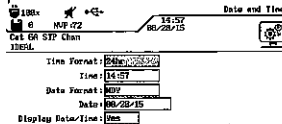
3. Enter appropriate information, it will be reflected in the tests reports, press Enter upon completion.



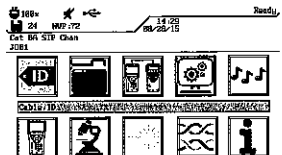
5. Make changes as required, press Enter.



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

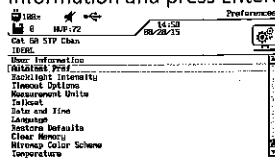


Section 2: Cable ID Setup

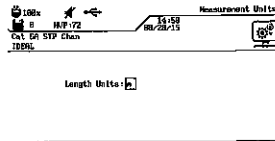


10. Press F1 or highlight the Cable ID icon, press Enter.

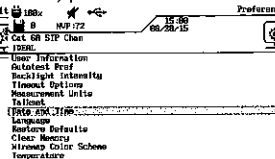
2. Highlight User Information and press Enter.



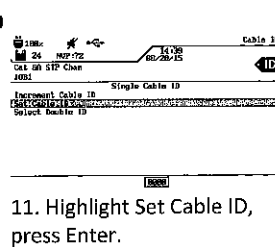
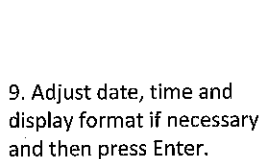
4. Press down arrow to highlight Autotest Pref, press Enter.



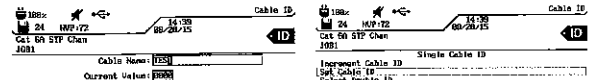
6. Highlight Measurement Units, press Enter.



8. Highlight Date and Time, press Enter.



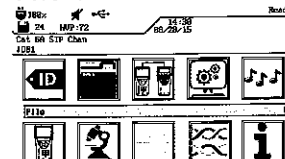
11. Highlight Set Cable ID, press Enter.



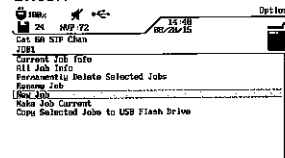
12. Enter cable name and Current Value, use arrow buttons to go between Cable Name & Current Value, press Enter.

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

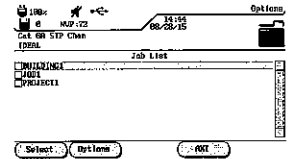
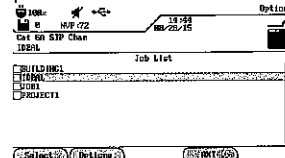
Section 3: Stored Tests, Project Naming and Selection



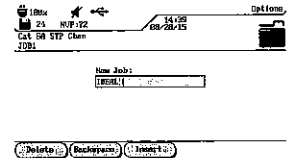
14. Highlight FILE and press Enter.



16. Highlight New Job and press Enter.



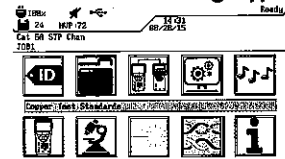
15. Press F2 for Options...



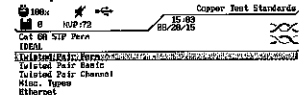
17. Enter Job Name as required, press Enter.

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

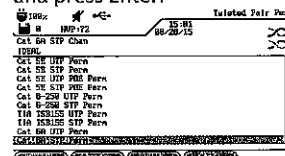
Section 4: Cabling Type Setup



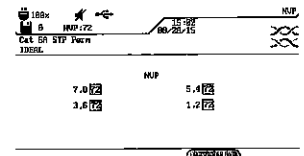
19. Press Shift & F4 or highlight Cable Type icon and press Enter.



20. Highlight Twisted Pair Perm, press Enter.



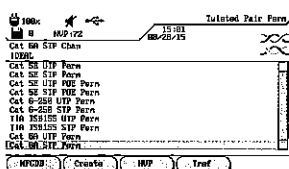
21. Highlight desired Cable



22. If necessary, press F3

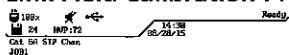
Proof of Performance

Test Standard.

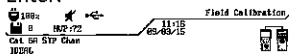


(NVP) to adjust the NVP value. Press ENTER.
23. Display will revert to cable selection menu. Press Escape to return to main menu.

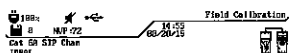
Section 5: Channel and non-RJ45 Permanent Link Field Calibration Process



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



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.



28. Calibration Complete, press Escape.

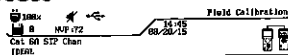
Pass/Fail Reporting

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

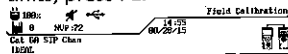
Overall Test Results

- ✓ Link passed the test
- ✗ Link failed the test

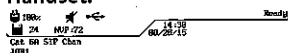
Note: A ✓* or ✗* means that one or more individual tests are closer to the limit line than the accuracy of the tester. In that case, the tester cannot clearly determine, if the parameter passes or fails.



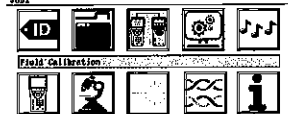
25. Connect Remote patch cord (pc) between the two units, press F1.



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



29. Tester is now setup for testing.



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	CAT6A ISO E _A	465MHz	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