

**Welcome**

Thank you for purchasing Fluke Networks LinkRunner! This office-to-network testing tool enables you to quickly check the network, test a cable, or ping.

**Register Now!**

Register LinkRunner and get a free holster. Go to [www.flukenetworks.com/register](http://www.flukenetworks.com/register) and enter your name and password (existing customer). Create a new account if it is your first time. You can also register by sending e-mail to [support@flukenetworks.com](mailto:support@flukenetworks.com).

**What's in the box?**

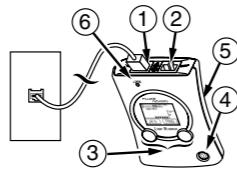
**Part No.**

LinkRunner	1664475
Quick Reference Guide	1664343
Batteries (installed)	see <i>Accessories</i>
Wiremap Adapter	see <i>Accessories</i>

PN 1664343 March 2002, Rev. 3, 4/04 © 2002-2004 Fluke Networks. All rights reserved. Printed in China. All product names are trademarks of their respective companies.	Fluke Networks P.O. Box 777 Everett, WA 98206-0777
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**Description**

1. RJ-45 LAN port
2. RJ-45 MAP port (cable testing)
3. Selection buttons  
Left – Highlight  
Right – Action
4. Power Button



5. Batteries (2) AA
  6. Link indicator light
- Power off* - press and hold  
*Backlight* - press once briefly

**Count on LinkRunner for Answers!**

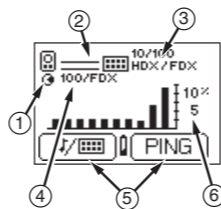
First connect an RJ-45 cable from the network hub or wall plate to the LinkRunner LAN port. Check the following list of questions and associated answers to see how LinkRunner can help you get the job done.

**Common Questions**

- Is this an active Ethernet port?
- Can I ping?
- Is this cable good?
- Is this cable good end-to-end?
- Where does this cable go?
- Is the PC NIC OK?

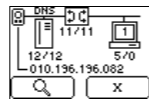
**Is this an active Ethernet port?**

1. Activity indicator
2. Cable/Link Status:  
= Straight patch  
= Crossover patch  
:x: Unknown patch (Auto-MDIX port on hub or switch)  
! Link Level (displays when low)
3. Advertised speed/duplex
4. Actual link speed/duplex



5. Softkeys (correspond to L/R selection buttons). Battery Low Indicator: displays when low.
6. Network utilization

**Can I ping?**

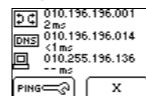


- Press [PING] to ping.
- In DHCP network environments, LinkRunner pings:
- [Router Icon] Default Router
  - [DNS Icon] DNS server
  - [Computer Icon] User-defined device (most recently selected)

**Ping Results**

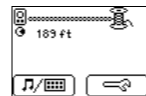
- Device icons are arranged based on their position relative to the router.
- [Dimmed Icon] Non-responding device icons appear dimmed.
- Ping frames sent/received display below each icon.
- The DHCP-acquired [LinkRunner Icon] LinkRunner IP address displays above the softkeys.
- Press [Magnifying Glass] to see details (Round Trip Time).

**Ping Details**



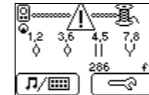
- Round Trip Time displays below the IP address (milliseconds).
- Press [PING] to access Ping Configuration.
- Press [x] to stop pinging.

**Note:** The DNS server is pinged only in DHCP mode.



**Is this cable good?**

- Plug a cable into the LAN port.
- All four pairs are 189 ft.



- ⚠ indicates a problem cable and details display below.
- || Good    ∩ Short
- ⚠ Unknown    ⚡ Split
- || Open (wiremap or cable ID)

**Is this cable good end-to-end?**

- Patch cable - connect both cable ends to LinkRunner (LAN and MAP port).
- Long Cable - connect one end to the LAN port and the other end to either the wiremap adapter or to a cable ID.



- A good cable generates this information:  
All four pairs are good.  
The cable length is 253 ft.  
The cable is a straight cable.



- ⚠ indicates a problem cable and details display below.

**Where does this cable go?**

- Plug the cable into LinkRunner's LAN port.
- Press [Tone] to start the cable locate function.
- Check the hub for a blinking port light or scan the cable at the far end with the optional toner receiver.
- Press [x] to stop.

**Cable ID**

- Cable ID - use the optional Cable ID kit (#1-8) and connect it to the cable far end to map cable runs.
- The cable identifier is 6.
- This cable run is 248 ft.
- It is a straight cable.

**Is the PC NIC OK?**

- If the network is OK, test the PC NIC card by connecting LinkRunner to it. If you get link, the NIC is good.

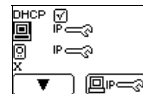


## Ping / LinkRunner Configuration



Press both action buttons simultaneously to access configuration (Ping or LinkRunner ). If no cable is connected, press to access Configuration.

### Ping Configuration



- Press to configure IP addresses for ping.
- Press to highlight an item.
- DHCP  - press for DHCP on/off.

**Note:** manual IP address configuration changes will be ignored until you turn off DHCP.

### User-defined IP Addresses

- press to enter user-defined IP addresses (up to 4 common IP address ping targets).

- Press to cycle through ping targets 0 - 4. Target 0 means you don't want to ping a target.
- Press to access IP editing then press to begin editing the selected target.



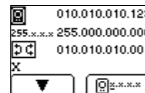
### Entering an IP Address



- Press to increment each digit.
- Press to advance.
- Press to exit.

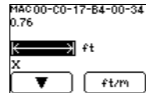
**Note:** Invalid addresses revert to the previous value (class D, E, 0.0.0.0, or 255.255.255.255).

### Manual IP Configuration



- press to access IP Configuration.
- Press to highlight an address:
  - LinkRunner IP address
  - Subnet Mask
  - Default Router
- Press the right selection button to begin editing an address.
- Press to then .

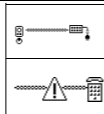
### LinkRunner Configuration



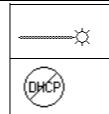
- From the Ping/LinkRunner Configuration screen, press LinkRunner Configuration.
- Displayed are the LinkRunner MAC address and version.
- Press to select feet or meters.
- Press to exit.

### Other Features and Functions

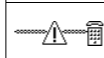
**Unpowered Device**



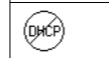
**Token Ring**



**Telco**



**No DHCP Server found**

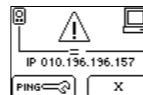


**Auto-off:** unit powers off after 5 minutes of inactivity (auto-off disabled during ping or cable locate tasks).

**Restore Factory Defaults:** press power button as you press both selection buttons.

**Ping Responder:** In ping mode LinkRunner responds to pings from other devices.

**Duplicate IP addresses found**



### Trimming the Wiremap Circuit

Periodically trim the wiremap circuit to help ensure accurate wiremap results:

- Turn off LinkRunner and disconnect any cable that may be attached.

#### CAUTION

**If you perform this procedure with a cable attached, LinkRunner will not work properly.**

- Hold down the right button, turn on LinkRunner, then wait until appears momentarily in the center of the screen before you release the right button.
- Turn off LinkRunner and connect a known good patch cable from the LAN port to the MAP port.
- Hold down the left button, turn on LinkRunner, then wait until appears momentarily in the center of the screen before you release the left button.

The LinkRunner wiremap circuit is now trimmed.

### Help Technical Assistance Center

Have a question about using LinkRunner? Contact the Technical Assistance Center at one of the numbers listed or e-mail: [support@flukenetworks.com](mailto:support@flukenetworks.com).

<b>USA</b>	1-800-283-5853	<b>Japan</b>	+81-3-3434-0181
<b>Canada</b>	1-800-363-5853	<b>China</b>	+86-10-6512-3435
<b>Europe</b>	+44-1923-281-300	<b>Singapore</b>	+65-6-738-5655
<b>Anywhere</b>	+1-425-446-4519		

You can also visit the Fluke Networks Knowledge Base at <http://kb.flukenetworks.com>.

### Accessories

Buy LinkRunner accessories or other network test products by contacting a Fluke Networks representative or send e-mail to: [sales@flukenetworks.com](mailto:sales@flukenetworks.com). For more information go to [www.flukenetworks.com/linkrunner](http://www.flukenetworks.com/linkrunner).

Accessories	Part No.
Cable ID Kit (IDs 1-8)	1665935
Clip Set	1668377
Toner Receiver	1667985
Wiremap Adapter (ID #0)	1668404
Rechargeable Batteries	1572184
Battery Charger	1572191
RJ-45 Coupler	1668361

### Cleaning

Clean unit with a damp cloth.  
If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

### Warranty

LinkRunner carries a one-year warranty. Find out more at [www.flukenetworks.com/linkrunner](http://www.flukenetworks.com/linkrunner).

### Environmental Specifications

10 °C to 30 °C (50 °F to 86 °F) with 95 % relative humidity maximum  
Altitude: 2000 m (6562 ft)

### Symbols

- CAUTION, refer to this documentation.
- Not intended to be connected to telecommunication line.
- Canadian Standards Association certified to Canadian and US standards
- Meets C-Tick EMC standard
- Conforms to European Union Directives Pollution Degree 2