



# GEA-8130A Ethernet Analyzer

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GEA-8130A is a handheld expert instrument for Ethernet deployment, maintenance, and troubleshooting. It supports 10/100/1000Mbps RJ45 electrical interface and 100/1000Mbps SFP optical interface, monitors network operation status through termination mode or pass through mode, and supports comprehensive LAN testing and common network tool. Meanwhile, the instrument provides comprehensive network performance evaluation for the deployment and maintenance of networks and services through traffic analysis, BER, and RFC2544, IPDV testing.

GEA-8130A is the right product meeting the current testing requirements for Ethernet applications in IP network, transport network and MSTP. Comprehensive test functions, various port configurations, flexible operation modes and friendly user interface make this product outstanding in the market.

## □ Functions

- Traffic performance analysis
  - Support layer 2 or layer 3 wire-speed traffic generation
  - Support two nested VLAN tags, QinQ
  - Multi-stream configuration, up to 8 streams
  - Statistics for received traffic
- BER testing: support layer 2 or layer 3 BER testing
- RFC2544 testing: support throughput, latency, frame loss rate and back-to-back testing
- Frame packet capture: support capture, storage, and simple decoding of Ethernet data
- Equipment identification: display key equipments in the network by analyzing received data
- Network device scan: support for IP lookup in accordance with existing equipment and networks for open ports
- Network problem discovery: discover common problems such as Web, E-Mail and other problems in the network through analyzing received data



- Network health check: show the health status of the network through the statistics and diagnosis of the received data
- Receive filter: support for filtering the received data and analysis
- Terminal emulation: support PPPoE dial-up connection, Web browsing, FTP download testing
- PoE testing: identify PoE device and test the power supply voltage
- Common network tool: support PING, traceroute, flashing port, tone generation, link detection, and optical power testing
- Cable testing: cable length, sequence, open, short, crosstalk testing, wiremap testing
- Data management: support save, view, delete, copy and other operations of the test results



## □ Features

- Simple and easy operation: high-definition color touch screen and graphical user interface
- Powerful performance analysis: provide comprehensive network performance evaluation for the deployment and maintenance of networks and services through traffic analysis, BER, and RFC2544, IPDV testing
- Comprehensive LAN testing: deep understanding of network status and timely discover problems in the network through network device scan, problem discovery, health check, terminal emulation
- Multiple test modes: termination, pass through, loopback, and other modes of measurement
- Good compatibility: support end-to-end testing with other Ethernet testers from DADI Telecom
- Powerful battery: built-in large capacity Li-ion battery with long operation time
- Optimized structure design: test interface anti-dust and anti-shock
- Advanced cooling system: ensure long and stable operation of the instrument

## □ Applications

### End-to-end testing

Use two instruments to do traffic performance testing and BER testing. The far-end instrument can automatically do RFE2544 testing with the near-end



### Termination mode

Use the instrument to connect network, cable or equipment and execute connectivity testing, cable testing, terminal emulation, LAN testing



### Pass through mode

Connect the instrument between two networks or between PC and network, two-way count and analyze the network data that passes through the instrument



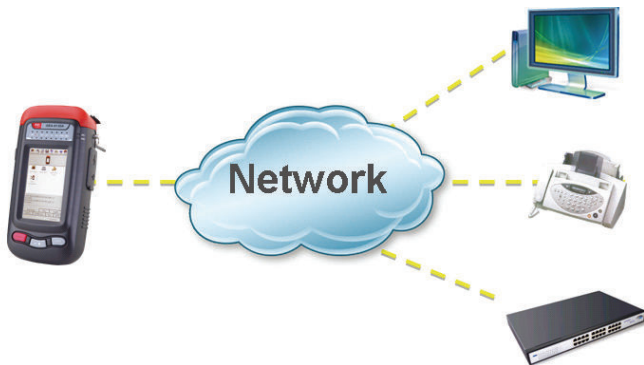
### Loopback mode

The instrument is in the status of data loop back and loops back received data according to data loop back layer



## Network monitoring

Use the instrument to connect to network, analyze received network data and discover automatically potential problems of network and equipment



## □ Specifications

General	
Size	210×110×60mm
Weight	1kg
Display	Color 4.3"LCD, 480×272
Operation mode	Touch screen
Interface	USB, RJ45, DC power
Data storage	2G SD Card
Test interface	10/100/1000BASE-T×2 100/1000BASE-X×2
Protocol	DIX, 802.3SNAP
Battery	Li-ion battery
Operation time	>7 hours
Operation temperature	-10°C~+50°C
Operation humidity	10%~90%

