

NOYAFA NF-8506

NOYAFA NF-8506 Network Cable Tester User Manual

Model: NF-8506 | Brand: NOYAFA

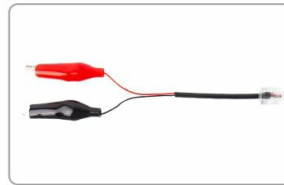
INTRODUCTION

The NOYAFA NF-8506 is an upgraded multi-function network cable tester designed for comprehensive network diagnosis and maintenance. It integrates various testing capabilities including IP scanning, PoE testing, TDR cable length measurement, continuity testing, Ping network speed testing, port flashing, and cable toning. This versatile tool is essential for professionals and enthusiasts working with RJ11, RJ45, CAT5, and CAT6 Ethernet cables, as well as optical fiber.

PACKAGE CONTENTS



Product



Test pens



USB Charging line



Test line



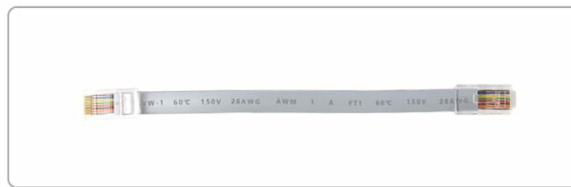
Earphone



Instructions



Cloth bag



RJ45 adapter cable



color box



Certificate

Image: Contents of the NOYafa NF-8506 package, including the main unit, remote unit, cables, and accessories.

- NOYafa NF-8506 Main Unit (Transmitter)
- NOYafa NF-8506 Remote Unit (Receiver)
- Test Pens (Alligator Clips)
- USB Charging Cable (Type-C)
- RJ45 Adapter Cable
- Earphone
- Instruction Manual
- Cloth Bag
- Qualification Certificate

PRODUCT FEATURES



Image: Overview of the NOYafa NF-8506's key features including TDR, PoE, IP Scan, and Port Flash.

- **Multi-function Network Cable Tester:** Features IP scanning, PoE testing, anti-interference RJ11/RJ45 CAT5/CAT6 cable testing, continuity testing, Ping network speed testing, port flashing, sensitivity adjustment, cable length testing, and an LED flashlight.
- **Time Domain Reflectometry (TDR):** Accurately measures cable length from 8.2ft (2.5m) to 656ft (200m) and identifies fault distances.
- **PING Tester + IP Scanner:** Diagnoses and maintains LANs running TCP/IP protocols, verifies connections, checks data integrity, measures round-trip times, and provides IP addresses.
- **Network Rate Test + Cable Continuity Test:** Assesses network rate issues, conducts PING tests for server response speeds, and identifies breaks, opens, or short circuits in cables.
- **PoE Tester:** Efficiently identifies PoE devices, detects crossover methods (unknown/end-span/mid-span/8-core power supply), polarity, and supports non-standard, IEEE 802.3AF, and IEEE 802.3AT.
- **Port Flashing and Identification:** Quickly identifies network cable ports by flashing indicator lights on the connected device, displaying port information like operating rate, duplex mode, and negotiation settings.

SETUP

Charging the Device

The NF-8506 main unit and remote unit are equipped with rechargeable Lithium Metal batteries. Use the provided

USB charging cable to charge both units. Connect the Type-C end of the cable to the charging port on the device and the USB-A end to a compatible USB power adapter (not included).

Powering On/Off

To power on the main unit, press and hold the power button (usually marked with a circle and vertical line) located below the screen. To power off, press and hold the same button until the device shuts down. The remote unit typically has a rotary switch or a dedicated power button.

OPERATING INSTRUCTIONS

1. Cable Continuity Test

This test verifies the integrity of network cables, identifying open circuits, short circuits, and crossovers.

- From the main menu, select "CONT" (Continuity).
- Connect one end of the RJ45 or RJ11 cable to the "QC/CONT" port on the main unit.
- Connect the other end of the cable to the remote unit's RJ45 port.
- Press "OK" on the main unit to start the test. The screen will display the wiring map and indicate any faults.



Image: Demonstrates the cable continuity test and port flashing feature, showing wiring diagrams for various fault types.

2. TDR Cable Length Measurement

Utilizes Time Domain Reflectometry to accurately measure cable length and locate breaks.

- From the main menu, select "Length".
- Connect one end of the cable to the "Length/Flash" port on the main unit. The other end should be open (not connected to anything).
- Press "OK" to initiate the measurement. The screen will display the length for each pair.

Length Measurement

Measure the length of cable once inserted



Image: Shows the NF-8506 measuring cable length, with the display indicating pin numbers and measured distances.

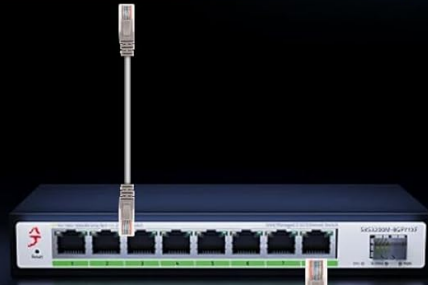
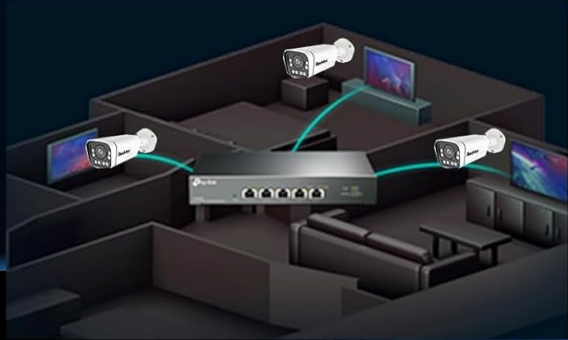
3. PING Tester + IP Scanner

Tests network connectivity and scans for active IP addresses on the network.

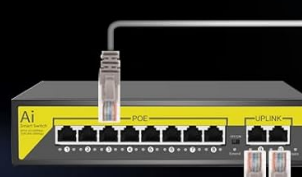
- From the main menu, select "PING" for Ping test or "IP Scan" for IP scanning.
- Connect the main unit to the network via the RJ45 port.
- For PING test, enter the target IP address and press "OK".
- For IP Scan, define the IP range and press "Scan". The device will list active IP addresses.

When you come across different IP addresses
and you can't tell the IP address apart

PING /IP address tester



PoE NVR



PoE Switch



Router

IP Scan	
Start IP	192.168.0.001
Ent IP	192.168.0.016
NO.	IP Address
001	192.168.0.001
002	192.168.0.003
003	192.168.0.006
004	192.168.0.011
005	192.168.0.013
Total: 6 Scanning...	
Scan Set IP	



Image: Illustrates the PING and IP scanning capabilities, showing the device connected to a network with IP addresses displayed.

DIFFERENT LOCATIONS SET DIFFERENT IP ADDRESSES

multi-function TDR network tester, IP scanning function, POE test, anti-interference RJ11 RJ45 CAT5 CAT6 network cable test, continuity test PING network speed test, port blinking, sensitivity adjustments, network cable length function test.



Image: Depicts the NF-8506 being used to scan IP addresses in a home network setup with multiple cameras and network devices.

4. PoE Tester

Identifies Power over Ethernet (PoE) presence, voltage, and standard.

- From the main menu, select "PoE".
- Connect the main unit to a PoE-enabled port or device.
- The screen will display PoE voltage, polarity, and standard (e.g., IEEE 802.3af/at).

POE TESTER

Support 802.3af 802.3at two standards
Support power type and power supply



Image: Highlights the PoE testing feature, showing support for 802.3af and 802.3at standards.

Your browser does not support the video tag.

Video: Official product video demonstrating the NOYAF NF-8506's PoE testing capabilities, showing voltage readings and standard detection.

5. Network Rate Test

Assesses the network speed and duplex mode of connected ports.

- From the main menu, select "Switch" (for Switch Test) or "PING" (for Network Speed Test).
- Connect the main unit to the network port.
- The device will display the detected network rate (e.g., 10M/100M/1000M) and duplex mode (Full Duplex/Half Duplex).

POEtest & Network Rate Test

Switch standard (IEEE802.3ataf/bt)After successful detection, the rate (10M/100M/1000M)and duplex mode (full duplex/half duplex) of the port will appear.



Image: Displays the PoE test results alongside network rate test results, showing detected speed and duplex mode.

6. Port Flashing and Identification

Helps locate connected cables by causing the corresponding port's indicator light to flash.

- From the main menu, select "Port Flash".
- Connect the main unit to the network port you wish to identify.
- The device will send a signal causing the connected port's LED on the switch or router to blink, allowing for easy identification.

7. Cable Toner (Scan Function)

Used to trace and locate cables within bundles or walls using the remote unit.

- From the main unit, select "Scan". Choose between "Digital Mode" (for live networks) or "Analog Mode" (for non-live cables).
- Connect the cable to be traced to the main unit's RJ45 scan port.
- Turn on the remote unit and adjust its sensitivity dial.
- Move the remote unit's probe along the suspected cable path. A louder tone indicates proximity to the cable.

8. Optical Power Meter (OPM)

Measures the optical power of fiber optic cables.

- From the main menu, select "OPM".
- Remove the protective cap from the OPM port on the main unit.
- Connect the fiber optic cable to the OPM port. The device will display the optical power in dBm.
- Supported wavelengths: 850nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm.

9. Visual Fault Locator (VFL)

Emits a visible red laser light into a fiber optic cable to quickly locate breaks, bends, or poor connections.

- From the main menu, select "VFL".
- Remove the protective cap from the VFL port on the main unit.
- Connect the fiber optic cable to the VFL port.
- Observe the cable for any visible red light leakage, indicating a fault.
- The VFL output is 10mW.

10. QC Test (Quality Control Test)

This test assesses the quality of RJ45 crimps, ensuring proper contact for all 8 pins.

- From the main menu, select "QC Test".
- Insert the RJ45 connector into the designated QC test port on the main unit.
- The screen will display checkmarks for pins making good contact and crosses for faulty connections.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents. For optical ports, use specialized fiber optic cleaning tools.
- **Battery Care:** Recharge the device regularly, especially if it will be stored for an extended period, to maintain battery health. Avoid fully discharging the battery.
- **Storage:** Store the device in its protective cloth bag in a cool, dry place away from direct sunlight and extreme temperatures.
- **Port Protection:** Always keep protective caps on optical ports (OPM, VFL) when not in use to prevent dust and damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery; Power button not held long enough.	Charge the device fully. Press and hold the power button for 3-5 seconds.
Inaccurate cable length readings.	Incorrect cable type selected; Cable damage; Environmental interference.	Ensure correct cable type is selected in settings. Inspect cable for physical damage. Minimize electromagnetic interference.
Cable continuity test shows faults on a known good cable.	Poor connection to tester ports; Dirty ports.	Ensure RJ45/RJ11 connectors are fully inserted. Clean tester ports with compressed air or appropriate cleaner.
Port flashing mode stops prematurely.	Auto-off setting for flash mode.	Adjust the auto-off time in the settings menu if available, or restart the flash mode.

Problem	Possible Cause	Solution
No tone detected during cable tracing.	Remote unit sensitivity too low; Incorrect mode (Digital/Analog); Cable not connected properly.	Increase sensitivity on the remote unit. Ensure correct scan mode is selected. Verify cable connection to main unit.

SPECIFICATIONS

Feature	Detail
Product Dimensions	2.2 x 9.5 x 6.7 inches; 1.28 Pounds
Item Model Number	NF-8506
Batteries	1 Lithium Metal battery required (included)
Manufacturer	NOYAFA
Power Source	Battery Powered
Color	Black
Min. Operating Voltage	3.7 Volts
Cable Length Test Range	8.2ft (2.5m) - 656ft (200m)
VFL Output	10mW
OPM Wavelengths	850nm/1300nm/1310nm/1490nm/1550nm/1625nm
Port Withstand Voltage	DC 60V

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact details provided in the product packaging or visit the official NOYAFA website. Keep your purchase receipt as proof of purchase for warranty claims.

Documents - NOYAFA – NF-8506



[NOYAFA NF-8506 Ethernet Cable Tester User Manual](#)

This user manual provides comprehensive instructions for operating the NOYAFA NF-8506 Ethernet Cable Tester, covering its functions, specifications, and packing list. It details various tests including continuity, cable tracking, port flash, cable length measurement, PoE test, Ping test, IP scan, and switch test.

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[pdf] Catalog
OK 20250227 V1 cdr HZL Noyafa catalog 2025 agendaage hu dok noyafa |||
SHENZHEN NOYafa ELECTRONIC CO.,LTD sale noyafa.com www.noyafa.com
Wanjing Business Center, Xinyu ... 60 sets, TXT format . 7. 8 remote identifiers help
to test 8 cables at one time Only for NF8601W . **NF-8506** Ethernet Cable Tester 1.
Measure the cable length in the range of 2.5m-200m, find the cable ...
lang:en score:24 filesize: 9.1 M page_count: 16 document date: 2025-03-04



[pdf] Catalog
СТРУКТУРИРОВАННАЯ КАБЕЛЬНАЯ СИСТЕМА NAG WIKI Тестер длины кабелей NF 8508 состоит
из одного передатчика приемника Noyafa 8601S это улучшенная версия популярного тестера 8601
Внешний CKC 2024 data nag wiki Catalogs RU Structured cabling system |||
2 3 Flash ; QC ; , , , , . . Li-
lon 3.7 1400. Noyafa **NF-8506** , , , ; / ; , , / ; ; Ping- ; NCV ; ...
lang:i-klinton score:24 filesize: 2.15 M page_count: 23 document date: 2024-05-13



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NF 8506 V4 20230921 Administrator Передатчик и приемник питаются от литиевой батареи Не
используйте прибор в условиях запыленности высокой влажности температуры выше 40°C noyafa
nf 8506 16440773 cdn vseinstrumenti ru instruction nomenclaturecontent 202410 42936387 |||
Ethernet- , 40C . . , . -1
.....2
lang:en score:22 filesize: 5.21 M page_count: 7 document date: 2024-05-24

Январская акция в Суперайс						
Период акции: 01.01.2025 г. по 31.01.2025 г.						
Оборудование блока питания лабораторного типа						
Код Партуры	Наименование товара	Цена за шт.	Скидка цена	Скидка	Дисконтная	Изображение
13 055	Трехканальный блок питания лабораторного типа MATTEI MPS- 3000B-3 (300B, 3A)	39 420	43 800	10%	4 380	
19 045	Питание лабораторное регулируемое 10-канальное (150B, 50A, 1.5A/0.5V)	175 971	195 526	10%	19 553	
20 222	Блок питания регулируемый LAB01 MF3131T (3000 B, 200 mA, 1200 W)	234 090	260 108	10%	26 010	
9 100	Лабораторный блок питания HCB 1200V	34 466	40 549	15%	6 083	
13 397	Блок питания лабораторный 4-канальный 475B-150A (150B, 40A) без разъемов BNC	21 380	26 408	10%	5 328	
13 446	Многоканальный блок питания лабораторного типа Noyafa 375B0502 (400B, 5A)	4 848	9 120	10%	2 280	
13 516	Лабораторный источник питания 4-канальный 475B-200A (200B, 20A)	7 938	9 740	10%	2 440	
Продукты питания лабораторного типа						
Код Партуры	Наименование товара	Цена за шт.	Скидка цена	Скидка	Дисконтная	Изображение
12 182	Специализированный источник питания Myntra HCF10120 (100B, 20A)	150 010	175 576	10%	17 557	
14 749	Лабораторный регулируемый источник питания 10-канальный (100B, 50A)	171 053	190 859	10%	19 086	
12 950	Питание лабораторное регулируемое MAGNETO WPS-40003 (2400B, 20A)	282 294	318 668	10%	31 866	
13 059	Многоканальный блок питания Poyafa HSPF-300-3 (300B, 3A)	62 967	70 496	10%	17 629	
17 015	Блок питания с USB мультиметром Noyafa HPS10420 (100B, 2A, 100W)	18 470	24 965	10%	4 495	

Январская акция на оборудование Суперайс
Каталог оборудования Суперайс с январскими скидками на лабораторные блоки
питания, микроскопы, паяльные станции, осциллографы и многое другое. Акция
действует с 01.01.2025 по 31.01.2025.
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User Январская акция в СуперайсЦифровой мультиметр ZOYI ZT · 5566SE 9 683 10 759 10% 1 076 11 747 ANENG AN 999S 151 439 20% 2 288 Измерители сопротивления Yanvar sale 2025supereyes ru img UT70A news Yanvar 2025 srsltid AfmBOoosXrltwnCxfgzwc3vSpKqrB

ННu4lxV5JbPyY7Xa60NzyFuiql СуперайсЯнварская сопротивления Январская Суперайс Период акции с 01 25 г по 31 Лабораторные блоки питания постоянного токаYanvar 2025Yanvar ННu4lxV5JbPyY7Xa60NzyFuiqlsupereyes

AfmBOopZMvX1rVMkI2EX54SIheqTFPw9QPXNzEU29bXjly1WBeYGoQ D токаПаяльная станция YIHUA 862DA для SMD компонентов 13 039 16 299 3 260 231 Термовоздушная паяльная 8786D паяльникYanvar Dsupereyes AfmBOorEhcxDVSa3Pn7px fabF3auBxDyHFh3tJgNkhwAaKAWW1qU6Gq ||| ||| : 01.01.25 . 31.01.25 . 13 855 MATRIX MPS3005H-3 30, 5 39 420 43 800 10 4 380 19 645 Yibenyuan 150 , 50 , 7,5 175 977 195 530 10 19 553 20 222 LANYI HPS1217 5000 , 240 , 1200 234 090 260 100 10 26 010 3 708 MCH 3205IV 34 466 40 549 15 6 08 ||| : 01.01.25 . 31.01.25 . 13 855 MATRIX MPS3005H-3 30, 5 39 420 43 800 10 4 380 19 645 Yibenyuan 150 , 50 , 7,5 175 977 195 530 10 19 553 20 222 LANYI HPS1217 5000 , 240 , 1200 234 090 260 100 10 26 010 3 708 MCH 3205IV 34 466 40 549 15 6 08

: 01.01.25 . 31.01.25 . 13 855 MATRIX MPS3005H-3 30, 5 39 4 ... 17 571 FeelTech FPA101A 12 390 17 700 30 5 310 -, 21 710 Noyafa **NF-8506** 9 562 12 750 25 3 188 OTDR 24 308 Grandway FHO5000-TC35F-LS-P...

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Январская акция в Суперайс						
Литература: 01.01.25 г. по 31.01.25 г.						
Код	Наименование товара	Цена	Сторона	Скидка	Литература	Изображение
Партнер	Цена	Цена	Цена	Цена	Цена	Цена
13 055	Трехканальный блок питания постоянного тока MATREX MPS-3005H-3 (100В, 3А)	39 420	43 800	10%	4 380	
19 045	Блок питания постоянного тока Yibenyuan (150В, 50 А, 1.5 кВт)	175 977	195 530	10%	19 553	
20 222	Блок питания с регулятором LANYI HPS1217 (5000 В-240 мВ, 1200 Вт)	234 090	260 100	10%	26 010	
9 708	Лабораторный блок питания HCH 3205IV	34 466	40 549	15%	6 082	
18 997	Блок питания регулируемый с регулятором YIHUA 862DA (10В-40В) без разъемов BNC	21 380	26 400	19%	5 310	
13 446	Новая источник питания постоянного тока Matrix MPS3005H (40В, 3А)	6 840	9 120	25%	2 288	
13 814	Лабораторный источник питания с регулятором YTH-2012 (100В, 30А)	7 320	9 740	25%	2 440	
Продукция с регулятором питания постоянного тока						
Код	Наименование товара	Цена	Сторона	Скидка	Литература	Изображение
Партнер	Цена	Цена	Цена	Цена	Цена	Цена
13 182	Синхронизированный источник питания Mofen HSP10120 (100В, 20А)	150 010	170 570	10%	17 557	
14 749	Лабораторный регулируемый источник питания Yibenyuan (100В, 50А)	171 053	190 055	10%	19 006	
13 950	Источники питания постоянного тока Matrix MPS3005H (40В, 3А)	282 294	313 668	10%	31 366	
13 669	Новая источник питания HCH 3205IV	52 907	70 490	25%	17 623	
17 015	Блок питания с USB регулятором Noyafa NF8506 (100В, 25А)	10 470	14 760	29%	4 471	

Январская акция в Суперайс						
Литература: 01.01.25 г. по 31.01.25 г.						
Код	Наименование товара	Цена	Сторона	Скидка	Литература	Изображение
Партнер	Цена	Цена	Цена	Цена	Цена	Цена
13 055	Трехканальный блок питания постоянного тока MATREX MPS-3005H-3 (100В, 3А)	39 420	43 800	10%	4 380	
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13 814	Лабораторный источник питания с регулятором YTH-2012 (100В, 30А)	7 320	9 740	25%	2 440	
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Партнер	Цена	Цена	Цена	Цена	Цена	Цена
13 182	Синхронизированный источник питания Mofen HSP10120 (100В, 20А)	150 010	170 570	10%	17 557	
14 749	Лабораторный регулируемый источник питания Yibenyuan (100В, 50А)	171 053	190 055	10%	19 006	
13 950	Источники питания постоянного тока Matrix MPS3005H (40В, 3А)	282 294	313 668	10%	31 366	
13 095	Цифровой стабилизированный источник питания Matrix MPS3005H (40В, 3А)	143 682	160 978	15%	25 347	
13 669	Новая источник питания HCH 3205IV	52 907	70 490	25%	17 623	

NOYAX 诺雅

NF-8506 多功能网络测试仪



NOYAX 诺雅

诺雅电子技术有限公司

NOYAX 诺雅

诺雅电子技术有限公司

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