



[ENG] NetPing Infra Red Universal Remote Control
3802, User guide

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[ENG] [IR3801] Introduction

This manual will help you to learn about the features of the **NetPing Infra Red Universal Remote Control 3802** device, get an idea of its functionality and technical characteristics and prepare the device for operation.

A User Guide is designed for network administrators and users, who set up or operate a device. To work with a device properly, a user must have an idea about the principles of building and functioning of local networks as well as possess the next knowledge and skills:

- Basic knowledge in the area of local and global networks;
- Basic knowledge in the area of architecture and principles of work of TCP/IP networks;
- Basic knowledge in the area of architecture and principles of work of Ethernet networks.

[ENG] [IR3801] Limitation of Liability and Copyright

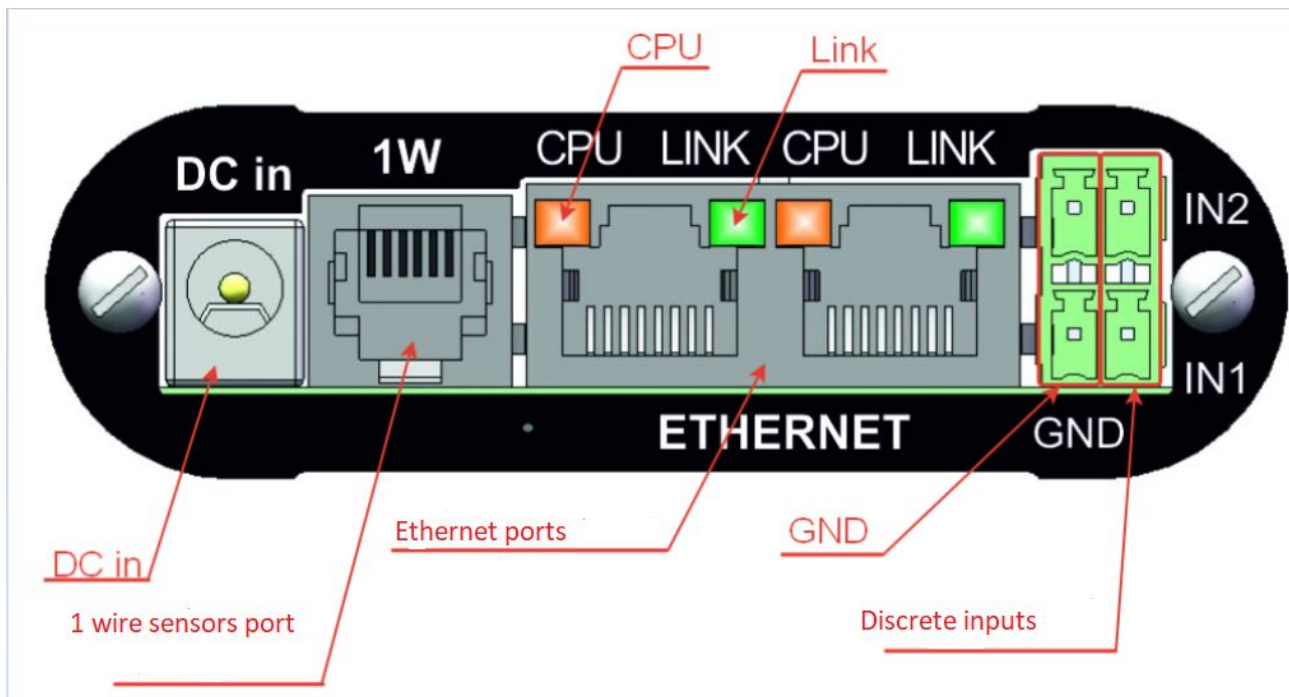
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Developer and manufacturer:

NetPing east Co Ltd.

[ENG] [IR3801] Connectors and Indicators

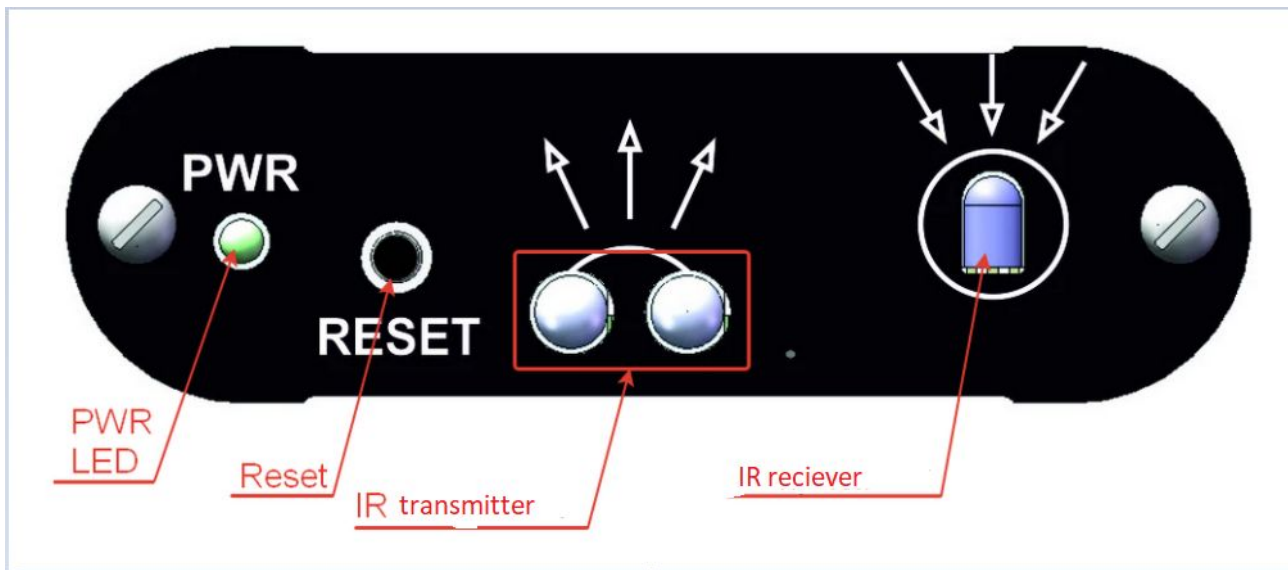
Front panel



Element	Function
1W port	1-Wire connection port for temperature or humidity sensors.
Digital input terminals IN1, IN2 (Input)	Terminals for connecting discrete sensors. Inputs specification: <ul style="list-style-type: none"> • logic "0" less than 3,5 V ; • logic "1" more than 8,2 V.
GND-terminals	Ground (GROUND) for connecting discrete sensors
Link	Indicator of Ethernet-port: <ul style="list-style-type: none"> • lights up if there is a connection • flashes while receiving packets.
CPU	Device operation indicator. Lit when the device is powered on. Flashes when sending packets to the network. Blinks quickly when reset to default.

Element	Function
Ethernet ports	2x10/100 BASE-TX, a built-in unmanaged L2 switch. PoE in 30-50V on both ports. If PoE is applied to one, then it passes through, regardless of whether the device is powered from PoE or not!
DC in	DJK-02A under the pin of 2,1 mm "+" power in the centre. The range is 10-12V.

Back panel



Element	Function
PWR	Device operation indicator. It lights up when power is on.
ACT	<p>When transmitting an IR command, it does not light up, flashes 1 time.</p> <p>If the command record contains garbage, it is lit for 1 s.</p> <p>When a write command is sent, IR - blinks quickly.</p> <p>When a command is received and successfully recorded, it stops blinking and goes out.</p> <p>Too long waiting for an IR command, timeout (> 20s) - stops blinking and goes out.</p> <p>IR recording buffer overflow - stops blinking, lights up for 1s, goes out.</p>
RESET	A button to reset the device to factory settings (it resets when the button is held down when the device is turned on).

Element	Function
IR-transmitters	Direct them to the equipment that needs to be controlled, +/- 8-10 degrees.
IR-receiver	It is used to read commands from the remote control.

[ENG] [IR3801] Installation and Connection

Step 1. Initial turning-on

1. Connect the device to the local network and power the device using a 12V DC power supply (PoE is disabled by default).



2. To configure the device, open the device web interface at <http://192.168.0.100> using a browser (it is advisable to use the latest version of Google Chrome browser). For authorization use:

- **Login:** visor
- **Password:** ping

3. If you need, you can change the IP address to a free one from the pool of your network and configure the device as needed, following the documentation: [3.2. \[DKSF 38.1 IU\] Where Can I Change the Settings of the Network Interface?](#)

Step 2. IR commands recording

1. Direct the IR remote control, the commands from which you want to record to the IR receiver of the device (incoming arrows).



2. Start recording the command to the required channel in the device web interface according to the documentation ([\[ENG\] 4.1. \[DKSF 38.1 IU\] How to write IR-commands Correctly?](#)). In this case, the CPU LED on the second Ethernet connector will light up continuously.
3. Press the button on the remote control for a short period of time, the command from which you want to record. After a successful reading, the CPU LED on the second Ethernet port will turn off.
4. If possible, in order to check, direct the device with IR transmitters (outgoing arrows) to the target device and test the command which has just been recorded.

Step 3. Mounting and sensors connection

1. Mount the device using the standard mount on a surface in the line of sight of the IR receiver of the device you want to control.



2. Using the mount rotary joint, direct the device with the IR transmitters to the controlled device.
3. According to the documentation ([Connecting Sensors](#)), connect all necessary sensors to the device..

[ENG] [IR3801] Connecting Sensors

It is prohibited to plug sensors and external modules into NetPing devices when a power supply is on!

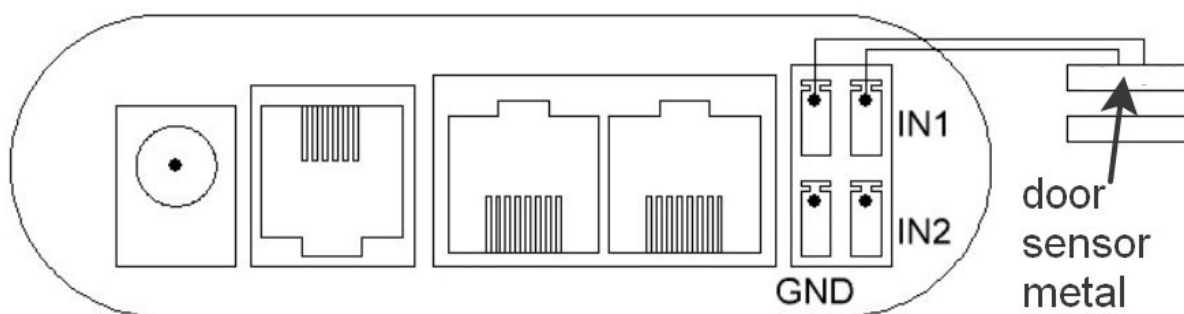
In order to configure the device and receive notifications from sensors see this document [\[ENG\] NetPing Infra Red Universal Remote Control 3802, Firmware description](#)

This device supports the connection of:

- two [Temperature sensors 1-wire](#);
- two [Humidity sensors 1-wire](#);
- two sensors of dry contact type.

Dry contact sensors that require additional power supply cannot be connected to the device. When you connect the sensors without additional power supply, polarity is not important, unless otherwise specified in the sensor documentation.

Sensors must be connected to terminals IN1-GND or IN2-GND. Below is a connection example of [Door sensor metal](#).



The length of the standard cable of the dry contact sensor can [Ссылка](#) be increased by using the [cable 4 extender](#), which are connected in series to each other or independently using any wire with a cross section of at least 0.4 mm². The maximum permissible loop length is 100 meters.

[ENG] [IR3801] Settings Reset to Default Values

To reset parameters carry out these steps:

- turn off the power to the device;
- press RES button;
- turn on the power;
- release the button 5-10 seconds after turning on the power.



If you carried out these steps successfully, the LED will blink, indicating the parameters are being reset.

The device has the following parameters by default:

Username: **visor**

Password: **ping**

IP-address: **192.168.0.100**

Subnet mask: **255.255.255.0**

Gate (gateway): **has not been set**

SNMPcommunity: **SWITCH**

MAC-address: **00 a2 xx xx xx xx**

Here xx xx xx xx is equal to the serial number of the device. Thus, all devices after production have a unique MAC address.

After resetting the parameters to the default values, it is necessary to perform the initial configuration of the device.

[ENG] [IR3801] Warranty Obligations

The manufacturer guarantees normal operation of the product within 24 months from the date specified on the warranty sticker if a buyer follows operating and storage conditions. Manufacturer warranty applies only to failure of a device which occurred because of defects in manufacturing process of products and components used. If during a warranty period the manufacturer receives a notice of such defects, it will repair or exchange the product (by its own discretion). If the manufacturer is unable to repair or replace a flawed item during a period of time determined by the current legislation, the manufacturer according to a customer's wish can return the amount paid for the product at the time of purchase. The manufacturer provides a limited warranty on firmware and device configuration software. In case of detecting any errors in the software which became known to the manufacturer on its own or from a customer, the manufacturer will fix these errors within a reasonable time and provide an update for the customer. Only the errors that block normal use of the device at conditions and for performing functions described in this User Guide are a subject to mandatory fix. This warranty does not apply to cases when defects appear because of: a misuse of a device, any modifications of a device without a written permission of the manufacturer, opening up a device (a warranty sticker on the case of a device is damaged) except cases foreseen by this description; repairing by unauthorized personnel, using or storing a device out of the range of allowable temperature and humidity, pressure, a software modification, and the reasons, listed below:

- A device failed because of the problems in a public electric network, plugging a device into power supply networks with invalid parameters, absence of grounding, etc. (power fluctuations and surges, overloading, etc.);
- A device failed because of having liquid inside;
- A device failed as a result of extreme temperatures;
- A device failed because of mechanical damage;
- A device failed because of connecting a power supply unit with invalid output voltage or a defective power supply unit;
- There are foreign objects, insects, etc inside the enclosure;
- During operation a voltage bigger than an allowable voltage range by the Ethernet standard has been supplied to the ports of a device.

[ENG] [IR3801] Operating and Storage Conditions

The device is designed for continuous round-the-clock operation in enclosed spaces. In working conditions, the device is resistant to air temperature range from -30 to +50 ° C and relative humidity from 5 to 95% at the temperature of 25 ° C (no moisture condensation). It is necessary to protect the device from direct moisture and sunlight exposure.

The design of the device provides for reliable uninterrupted operation during a long time without the necessity of special maintenance. The advanced functionality of remote configuration and device configuration allows you to change any parameters remotely and centrally for a large number of devices.

The devices are stored at temperatures from -40 to +70 ° C.

There is dust, vapors of acids and alkalis, corrosive gases and other harmful impurities that cause corrosion in the storage rooms. The amount of these substances should not exceed the content of corrosive agents for the atmosphere of type 1.

[ENG] [IR3801] Additional Documents and Links

The device page in the manufacturer`s website: <http://www.netpingdevice.com/products/netping-ir-3801>

Manufacturer's website: <http://www.netpingdevice.com>

Technical support contacts: <http://www.netpingdevice.com/support>

Phone: +886-2-23121582

E-mail: support@netpingdevice.com