



# Preparation for the first start-up

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1. Power adapter

In order to connect the device you need to prepare a power adapter according to the specification, i.e., with the minimum parameters of: 12VDC 1000 mA you can use the [DN-20-24](#) power adapter.

2. Network cable with RJ45 connector

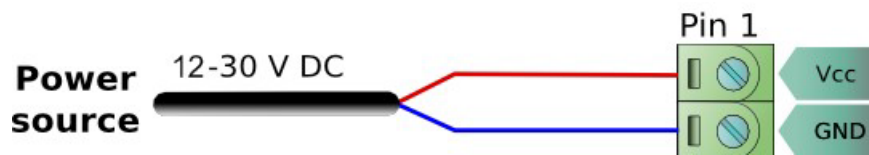
Network cable will be used to connect the device to a local area network (LAN) with access to the Internet, or for a direct computer connection.

3. [SearchNPE](#) Application

The [SearchNPE](#) application enables detection of iMOD/NPE devices in the network. You should install this application on the computer.

# Connecting the device

The first step is to connect the power supply.



Next, connect the device to a computer or LAN with a network cable.

## Method 1. Direct connection



Direct connection between a computer and the device requires additional network interface configuration. The device should be connected directly to a computer with an Ethernet network cable.

The device automatically detects the connection cable type, so that you can use both crossover and standard cables.

## IP configuration

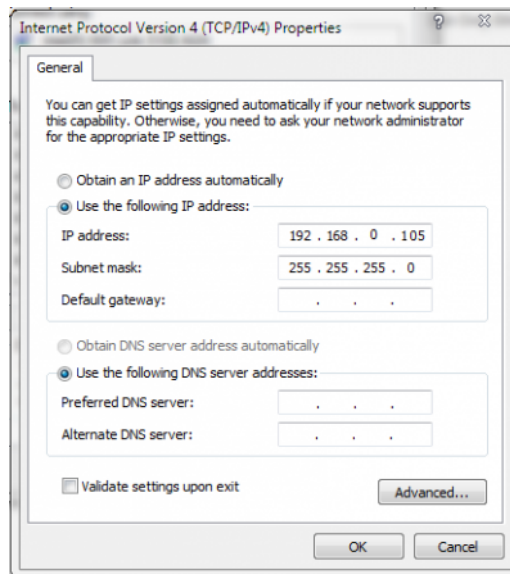
In order to establish a connection you need to configure the IP properly. The IP address should be on the same subnet as the device. The subnet of the computer (and the device) is defined by two parameters:

- IP address
- Subnet mask

Ethernet interface of the device has the following default configuration:

- IP address: 192.168.0.101
- Subnet mask: 255.255.255.0

This information will be used in the next step.



Above there are the device default parameters, assuming they have not been changed. the computer must have the following IP configuration:

- IP address: 192.168.0.105
- Subnet mask: 255.255.255.0

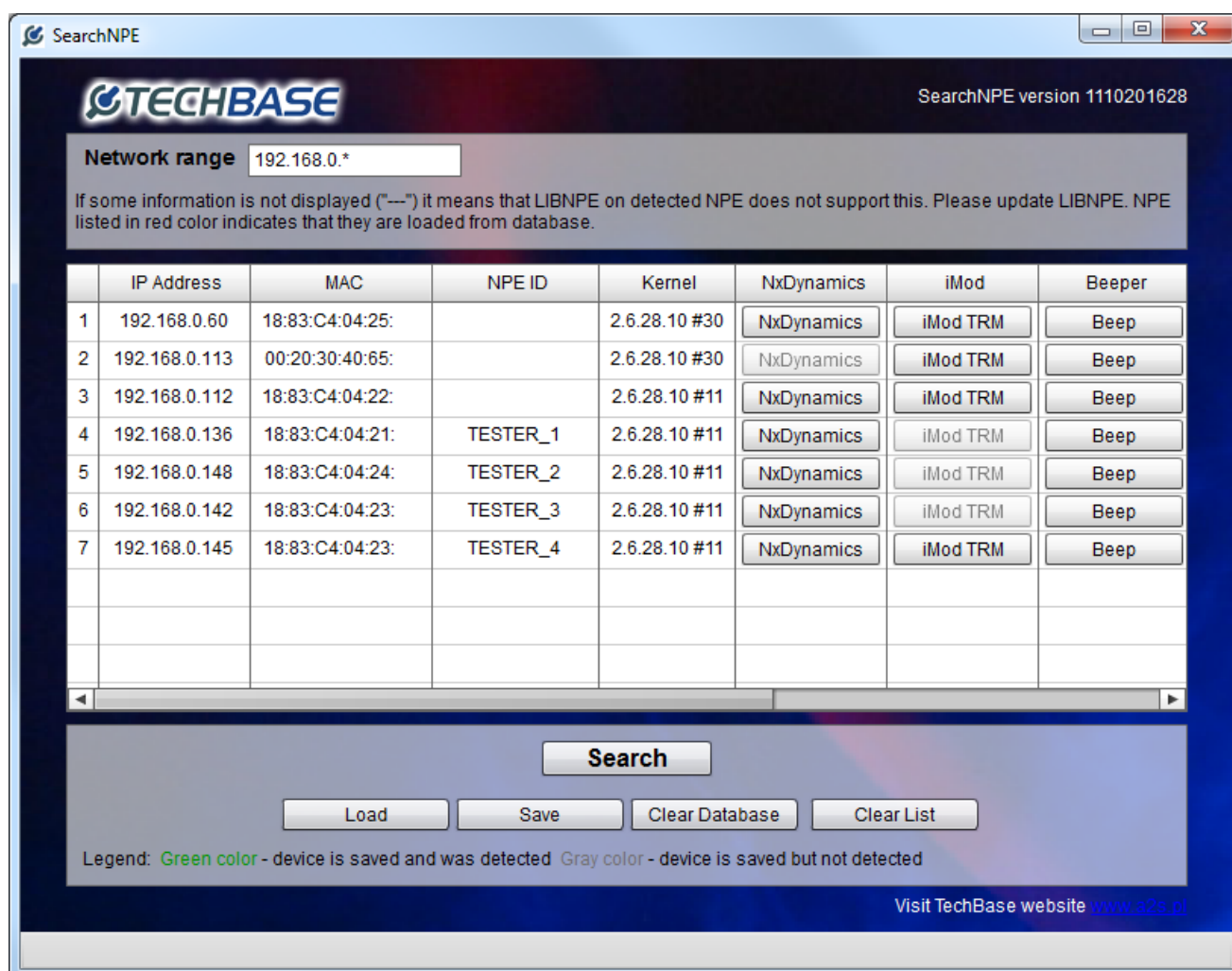
After the abovementioned network settings configuration you will be able to establish a connection with the iMod/NPE device.

## Method 2. LAN connection




Another method is connecting the device to a local area network (LAN). If a router in the network has the DHCP (Dynamic Host Configuration Protocol) service active, the device IP address will be randomly assigned after start. In order to improve searching for the addresses assigned to devices in the local area network the [SearchNPE](#) application has been created.

After launching the installed application a search window will appear:

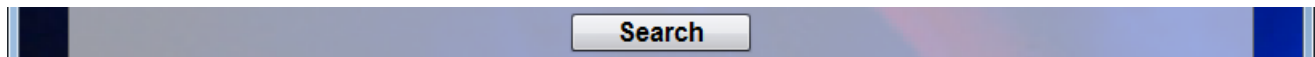


Next, you need to set the scope of the addresses you search as default for the LAN. For example, for 192.168.5.x network addresses type in '192.168.5.\*'



A screenshot of a network configuration interface. It features a dark blue header bar with the text 'Preparation for the first start-up' and '6/9'. Below the header, there is a text input field labeled 'Network range' containing the value '192.168.0.\*'. The input field is white with a thin border, and the label is in a bold, sans-serif font. The background of the interface is a light gray gradient.

Click on the *Search* button in order to search the network.



A screenshot of a network configuration interface. It features a dark blue header bar with the text 'Preparation for the first start-up' and '6/9'. Below the header, there is a text input field labeled 'Network range' containing the value '192.168.0.\*'. The input field is white with a thin border, and the label is in a bold, sans-serif font. The background of the interface is a light gray gradient.

## Telnet connection

When you already know the IP address of a device, you can make a telnet connection in order to begin the device startup and configuration.

In Windows 7 you need to install the service manually.

- type in *telnet IP address* in the command-line interface

```
C:\>telnet 192.168.0.101
```

- The following window appears

```
techbase login: user  
Password:
```

You need to enter a login and a password in order to log in. The default values are:

- Login: *user*
- Password: *user*

The entered password is not visible on the screen.

- In order to get Administrator privileges, you need to use the *su* command

```
user@techbase ~]$ su  
Password:
```

Default password: *techbase*.

## Checking Firmware Version

Technical support covers only the latest versions of software. After the first startup, please check if the current firmware version and the latest packages are installed.

- In order to do that, you need to execute the `softmgr update firmware` command  
This command checks if a more recent version of firmware is available and it updates the firmware together with the basic packages.

After firmware update a reboot of the device with the `reboot` command is required.

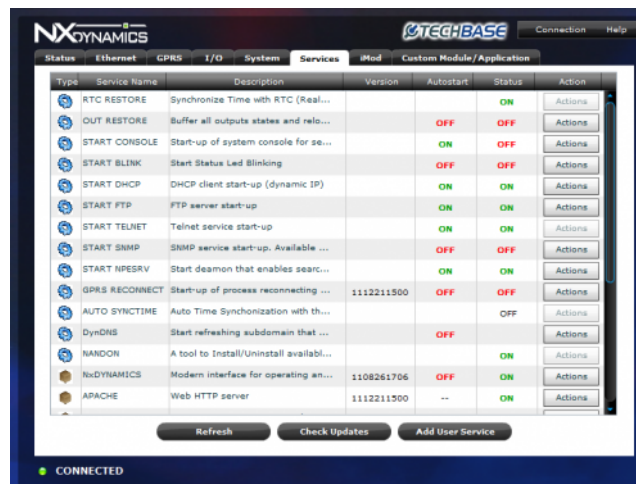
## Packages Update with NxDynamics

- In order to check if there are any active software packages for the device, you need to log in the [NXDynamics](#) interface (pre-installed 30 days trial version) typing the `deviceIP/nx` into the browser URL address:





- After logging in, you need to open the *Services* tab and check if there are any available updates with the *Check Updates* button



- If there are any updates for the packages, you need to use the *update* option

