

1. CONNECTING TERMINAL

This chapter describes how to setup connection with an Newland NQuire terminal.

First the correct IP-addresses have to be set in the NQuire.

For correct operation the NQuire has to be set on a fixed IP-address and the IP-address of the server controlling the Nquire has to be set.

1.1. SET NQUIRE ON DHCP

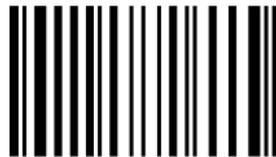
First we will set the NQuire to get an automatic IP- address by DHCP. This allows us to connect with the build-in website to do further settings.

We will use the build-in scanner to switch to using DHCP.

Scan the barcodes below from top to bottom:



Programming ON



Program network settings



/network/dhcp = true



Programming OFF

Now the Nquire will get an IP-address via DHCP.

1.2. SHOW SETTINGS OF NQUIRE

To connect to the NQuire to do further settings we first have to know the current IP-address.

We can display the current configuration on the screen of the NQuire.

Scan the barcodes below from top to bottom to show configuration:

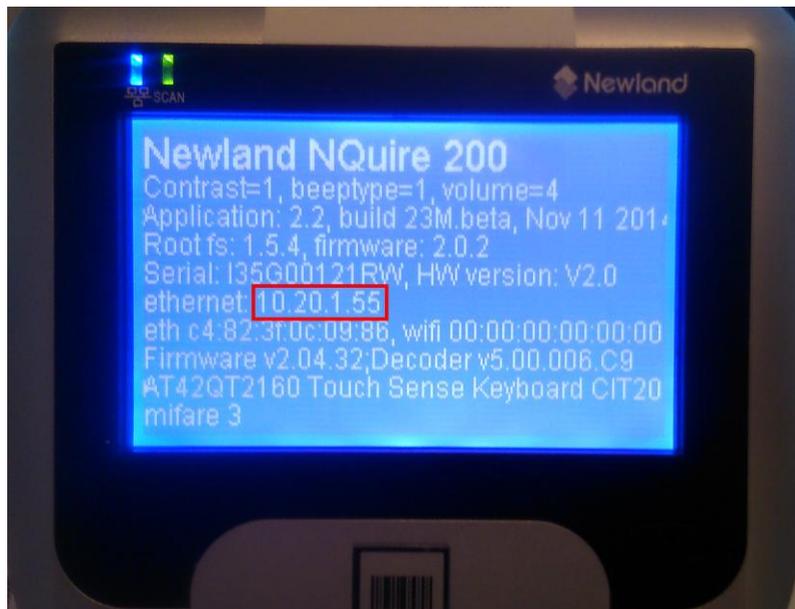


Programming ON



On screen configuration overview

The configuration of the terminal is shown on screen. This configuration contains the IP-address of the ethernet connection.

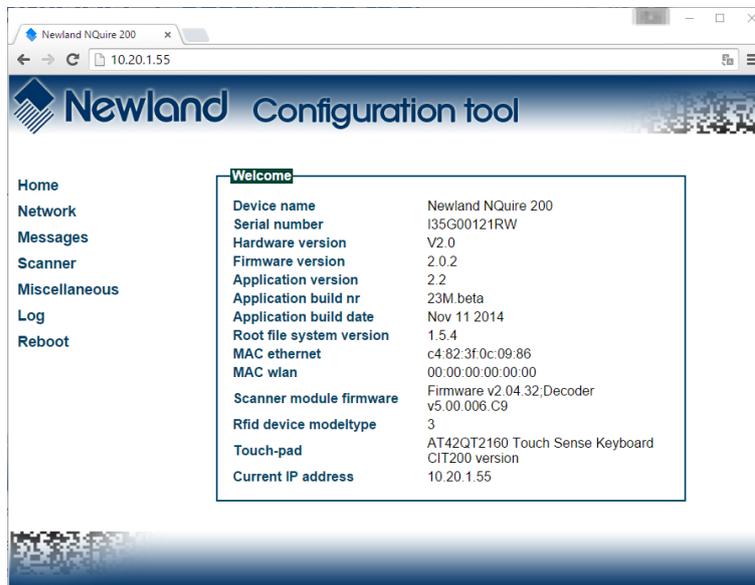


Remember this IP-address.

1.3. CONNECT WITH CONFIGURATION WEBSITE

Now start a web browser (Chrome, Ms Internet Explorer, Firefox, etc) and type in the address bar the IP-address of the NQuire terminal.

The configuration website of the NQuire terminal is shown.



1.4. CONFIGURING NETWORK

In the configuration website we can now set the settings for network and the address of the server controlling the NQire.

Newland Configuration tool

Home
Network 1
 Messages
 Scanner
 Miscellaneous
 Log
 Reboot

Network interface
 Network interface ethernet

IP Settings
 Use DHCP No Yes
 IP address 192.168.1.200
 Netmask 255.255.255.0
 Gateway 192.168.1.1
 Nameserver 1 192.168.1.1
 Nameserver 2 192.168.1.1 2

NQire protocol settings
 Mode server
 UDP port 9000

For correct operation the NQire has to be set on a fixed IP-address. This address has to be a free address within the network the NQire will be connected to.

1. Click on **Network** in the menu
2. Turn off **DHCP**
3. Specify the IP address
4. Set the other network settings line Gateway and DNS

Newland Configuration tool

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 Gateway 192.168.1.1
 Nameserver 1 192.168.1.1
 Nameserver 2 192.168.1.1

NQire protocol settings
 Mode server
 UDP port 9000
 TCP port 9101
 Remote IP address 192.168.1.10 1
 Http address http://

Apply settings 2

The IP-address of the server controlling the NQire has to be set. This is the IP-address of the pc where the *TimeTracking Server Software* is installed and running.

1. Scroll down to the section **NQire protocol settings**
2. Specify the IP-address in the field **Remote IP address**
3. Leave all other settings unchanged
4. Click on **Apply Settings** to apply the settings and restart the NQire terminal.

2. SETUP HR100 SCANNER

A Newland HR100 scanner can be attached to the external USB port.

Scan the barcodes below from top to bottom to program the HR100 scanner for use on the NQuire:

Code Programming ON



*Load All Factory Default

Code Programming ON



Program Stop Suffix



0



D



Save

Code Programming ON



Enable Stop Suffix

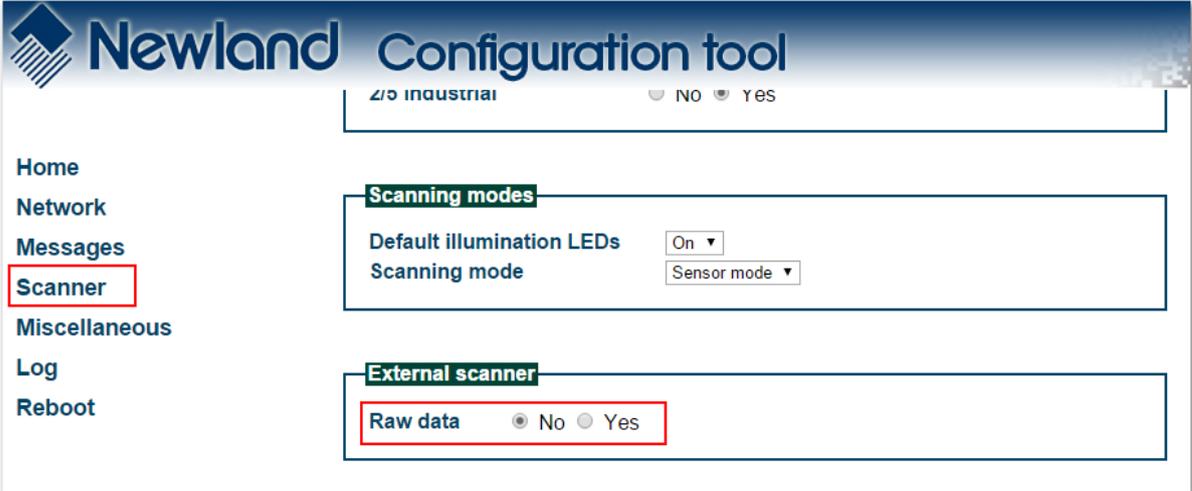


Allow Code ID Prefix

Code Programming OFF



For a correct working of the external scanner the setting "Raw data" for the external scanner has to be set to "No".



The screenshot displays the 'Newland Configuration tool' interface. On the left is a navigation menu with the following items: Home, Network, Messages, Scanner (highlighted with a red box), Miscellaneous, Log, and Reboot. The main content area is divided into two sections:

- Scanning modes**: Contains 'Default illumination LEDs' set to 'On' and 'Scanning mode' set to 'Sensor mode'.
- External scanner**: Contains the 'Raw data' setting, which is currently set to 'No' (indicated by a red box around the radio button).

3. MISC PROGRAMMING SEQUENCES

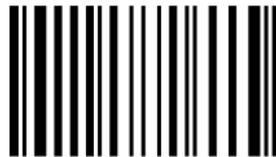
In this chapter you find programming sequences to program settings for the NQuire.

3.1. ENABLE ETHERNET

Scan the below sequence to turn off WIFI and enable the Ethernet interface again.



Programming ON



Program network settings



/network/interface = "ethernet"



Programming OFF

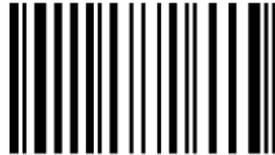
Now the Nquire will connect again via the Ethernet cable.

3.2. ENABLE WIFI

Scan the below sequence to turn off Ethernet and enable the WIFI interface again.



Programming ON



Program network settings



/network/interface = "wifi"



Programming OFF

Now the Nquire will connect again via WIFI.

4. DEFAULT SETTINGS NQUIRE TERMINAL

For correct operation the following defaults settings have to be set.

4.1. MESSAGES

The screenshot shows the 'Newland Configuration tool' interface. On the left is a navigation menu with 'Messages' highlighted. The main area contains three sections: 'Idle message', 'Error message', and 'Font sizes'. Each section has a table of settings. The 'Idle message' section has a 'Picture' checkbox checked. The 'Error message' section has two rows of text with corresponding X Pos, Y Pos, Vert Align, Hor Align, and Size settings. The 'Font sizes' section has two rows for 'Font size small' and 'Font size large'. An 'Apply settings' button is at the bottom.

Idle message						
Text	X Pos	Y Pos	Vert Align	Hor Align	Size	
	0	20	top	left	large	
	0	55	top	center	small	
	0	80	top	center	small	
Picture <input checked="" type="checkbox"/>	0	0				

Error message						
Text	X Pos	Y Pos	Vert Align	Hor Align	Size	
Please ask	0	30	top	center	small	
for assistance	0	60	top	center	small	

Font sizes	
Font size small	18
Font size large	28

Apply settings

4.2. MISCELLANEOUS

Both **Idle message timeout** and **Touch keyboard timeout** should have higher values than the value set for **PoolingInterval** (default = 10) in the settings of the MatrixProject TerminalTracking.

Important is to set the **Idle message timeout** to 15.

The screenshot shows the Newland Configuration tool interface. On the left is a navigation menu with items: Home, Network, Messages, Scanner, **Miscellaneous** (highlighted with a red box), Log, and Reboot. The main content area is divided into several sections:

- Device**: Device name: Newland NQuire 200
- Authentication**: Enable authentication: No Yes; Username: admin; Password: [masked]
- Programming barcode security**: Programming mode timeout: 15; Enable security code: No Yes; Barcode programming security code: 0000
- Text and messages**: Idle message timeout: 15 (highlighted with a red box); Error message timeout: 1; Font codepage: ibm852; Scan event separator: LF; Message encryption: none; Use Custom NQuire identifier: No Yes; Custom NQuire identifier: \${serial}:

For correct working of the Touch Keyboard set the following setting:

The screenshot shows the 'Newland Configuration tool' interface. On the left is a navigation menu with options: Home, Network, Messages, Scanner, **Miscellaneous** (highlighted with a red box), Log, and Reboot. The main area contains three configuration panels:

- Interaction** panel:
 - Display contrast: 1 ▾
 - Beeper volume: 1 ▾
 - Beeper type: 2 ▾
 - Disable beep after scan: No Yes
- GPIO** panel:
 - Server message prefix:
 - Append event counter: No Yes
 - Method: On read GPIO ▾
 - Poll speed (seconds): 15 ▾
- Touch screen** panel (highlighted with a red box):
 - Server message prefix:
 - Touch keyboard timeout [seconds]:
 - Touch key click: beep2 ▾
 - Invert button on click: No Yes
 - Minimum time between click: 0.5 ▾
 - Only send active key events to server: No Yes