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| Numbering： | |
| Version： | 00.01 |
| Date： | 23/07/18 |
| Distribution： | |
| Departmen： | Technology Center |
| Secret： | |

# NewLand Unified Download Tool User Manual

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**Change Log**

| Version | Date | Editor | Revision record |
|---|---|---|---|
| 00.01 | 23/07/18 | Newland Y | initial version |
| | | | |

**Approval record**

| Version | Date | Approve | Review | Editor |
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**File distribution list：**

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# 1. Tool Introduction

## 1.1 Tool Overview

Fujian Newland Payment Technology Co., Ltd. download tool provides application software download and firmware programming for the full range of NL-POS products. Software download via usb and serial port. The tool can connect up to 8 pos at the same time to download applications or firmware programs.

## 1.2 Support Model

Supported models include：NL8080、NL8200、NL8300、NL8510、NLGP8510、NL8080YS、NLGP710、NLGP720、NLGP730、N900、N910、IM81、SP50、SP80、SP60、SP610、ME50、ME30、ME31、ME50N

## 1.3 File Type

Support application（*.NLD、*.NLP、*.ZIP、*.OTA、*.NZP、*.APK）Firmware program（*.NLC、*.NLP、*.ARD）and other file types configured in the .LIST configuration file

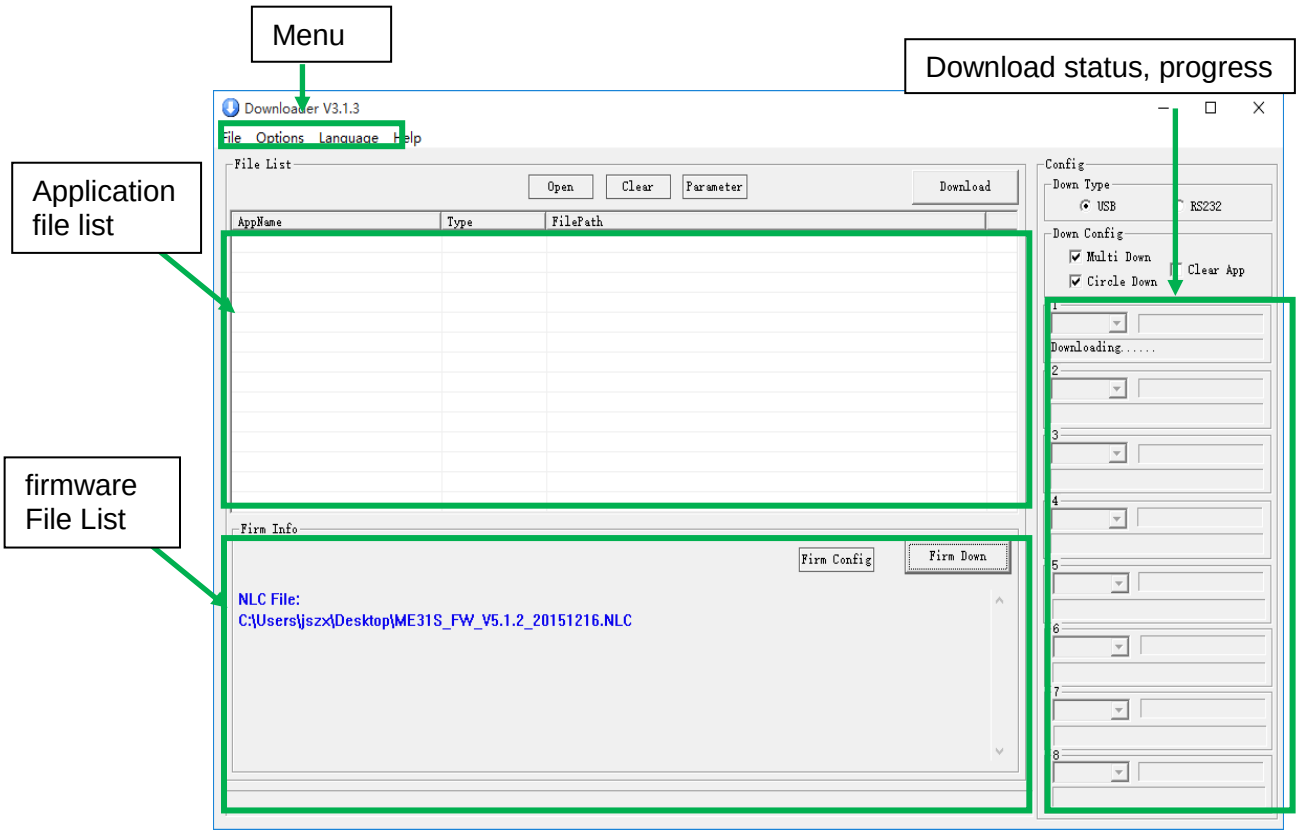
## 1.4 Operating Environment

- ✧ windows xp（x86、x64）
- ✧ windows 7（x86、x64）
- ✧ windows 8（x86、x64）
- ✧ windows 10（x86、x64）

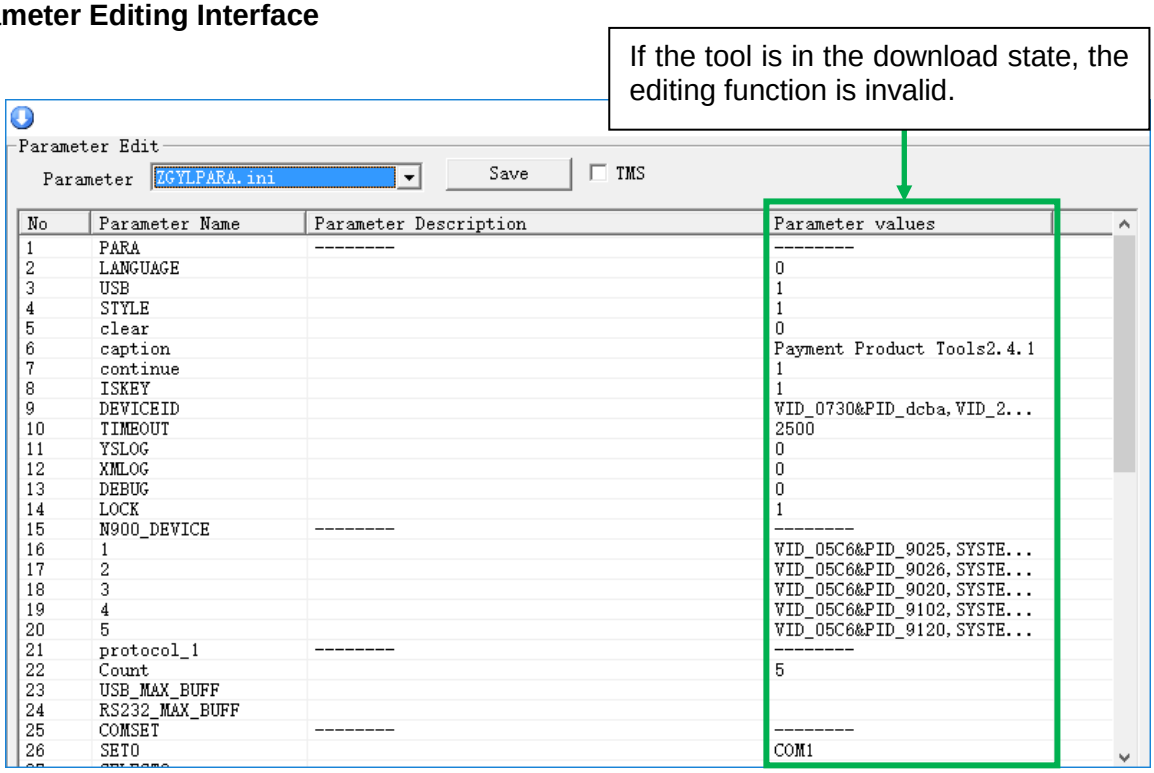
# 2.Tool Interface

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## 2.1 Main Interface




## 2.2 Parameter Editing Interface



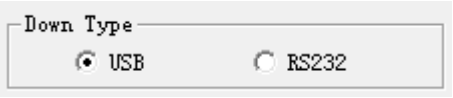

Files in ini format can be edited, saved and downloaded directly by download tool

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# 3. Preparation Before Downloading

## 3.1 Down Type

Open the download tool, the default use USB communication mode, USB mode is suitable for all NewLand series Pos




## 3.2 Download Config

If ”Mutli Down” checked, the PC can connect up to 8 Pos devices at the same time, and the connected devices can be downloaded at the same time;
If ”Circle Down” checked，after downloading a batch of Pos from the PC, unplug the USB cable, connect the new Pos, and the tool will continue to download.
If ”Clear App” checked，the installed application in Pos will be cleared.




## 3.3 Load File

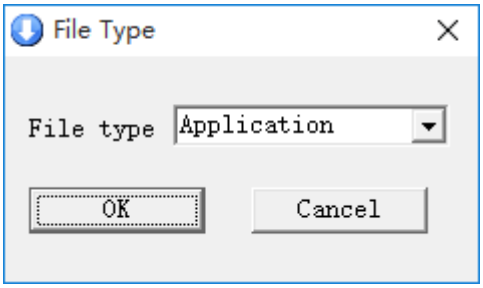
**The download tool provides four ways to load a single application file.**

- ✧ Automatically load into the download tool by double-clicking the package file to be downloaded
- ✧ Drag the package file to be downloaded to the download tool by mouse
- ✧ Open button through the main interface
- ✧ From the main interface menu bar “File -> Open” menu

When loading multiple package files, repeat the above loading action. It can also be loaded once by configuring the .LIST file.
List loading is introduced in Chapter 4.

## 3.4 Select File Type

When loading a single NLP file, you need to manually select the firmware or application type. Other types of packages, the tool will automatically determine the type.



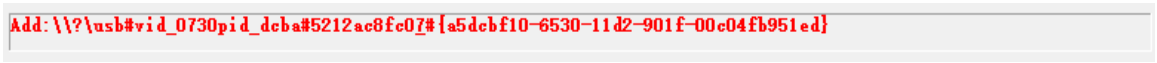

## 3.5 Prepare Pos

- ✧ First confirm that the unified PC driver installation package (whql_driver) provided by NewLand Payments has been installed. The driver only needs to be installed once; if it has been installed, skip this step.
- ✧ Connect Pos to the PC via the usb line, and Pos enters the download mode. Application download mode Normally after the Pos is turned on, enter the “application download icon”; The firmware download mode is usually booted by the combination key of “Power button + function key” to enter the firmware download status; refer to Newland

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device description for specific operation.

- ✧ If the driver is successfully installed and the POS enters the corresponding download state, a string of red usb device information will appear at the bottom of the download tool, indicating that the download operation can be performed.




- ✧ If you download the application package, click the ″ Download″ button; if you download the firmware package, click the ″Firm Down″ button.

# 4. Configuration List

Load multiple package files by writing a configuration file with a file suffix of .list

## 4.1 Configuring firmware

Set DownType、 SlaveCount、 Master、Slave in the node [BootHex]

Traditional Pos example:

```
[BootHex]
DownType=2
SlaveCount=2
Master=NL-GP730_FM_V3.03.n_1.29a.NLC
Slave1=logo_ums_V3.1.NLC
Slave2=pdc_app.NLC
```

Multimedia Pos example:

```
[BootHex]
DownType=8
SlaveCount=1
Master=N900_SA2_V2.0.07_03a39052c_20160509_bootloader1.ARD
Slave1=N900_SA2_V2.0.07_03a39052c_20160509.ARD
```

MPos example：

```
[BootHex]
DownType=5
SlaveCount=0
Master=master_ME30_Q01310A01.NLP
Slave1=
```

## 4.2 Configuring Application

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Set the Type in the node [Set], and configure the download file in the node [FileList]. The format is:
[file name]=[type]
**Traditional Pos:**

**General Configuration**
There can only be one download file for the main program type, only one parameter file. There are multiple download files for the program type.

**example:**
[Set]
Type=3
[FileList]
main.NLD=Main NLD
mobilepay.NLD= Program NLD
test.NLD=Program NLD
zgyl.ini=Parameter file

**Multi-application Multi-parameter**

Multi-application multi-parameter configuration file can be understood as a collection of multiple general configuration files, allowing the tool to read and configure parameter files of multiple applications.

Need to be reminded that in each group, there can only be one main program, but there can be multiple file types.

**example 1:**
[Set]
Type=10
GroupNum=2
[Group1]
main.NLD=Main NLD
mobilepay.NLD= Program NLD
zgyl.ini=Parameter file
[Group2]
Main_1.NLD=Main NLD
Main_2.NLD= Program NLD
Text1.txt=File
Text2.txt= File
Text3.txt= File

**example 2:**
[Set]
Type=10

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```
GroupNum=2

[Group1]
main.NLD= Main NLD
ammain.8510.NLD= Program NLD
ZGYLPARA.ini= Parameter file
[Group2]
AAZNQK009073210303.8510.NLD= Main NLD
ZNQKPARA.ini= Parameter file
```

**Multimedia Pos example:**

Common types of multimedia include: APK application, signature file (*.sig), certificate file (*.pem_new), OTA file
**example:**

```
[Set]
Type=7
[FileList]
Test.apk=apk
Test1.apk=apk
N900_SA2_OTA.ALL_V2.1.00_cd66754895_20160511.zip=OTA
N900_SA2_OTA.ALL_V2.4.00_cd66754895_20160511.zip=OTA
```

**example:**

Types include: programs, files
举例:

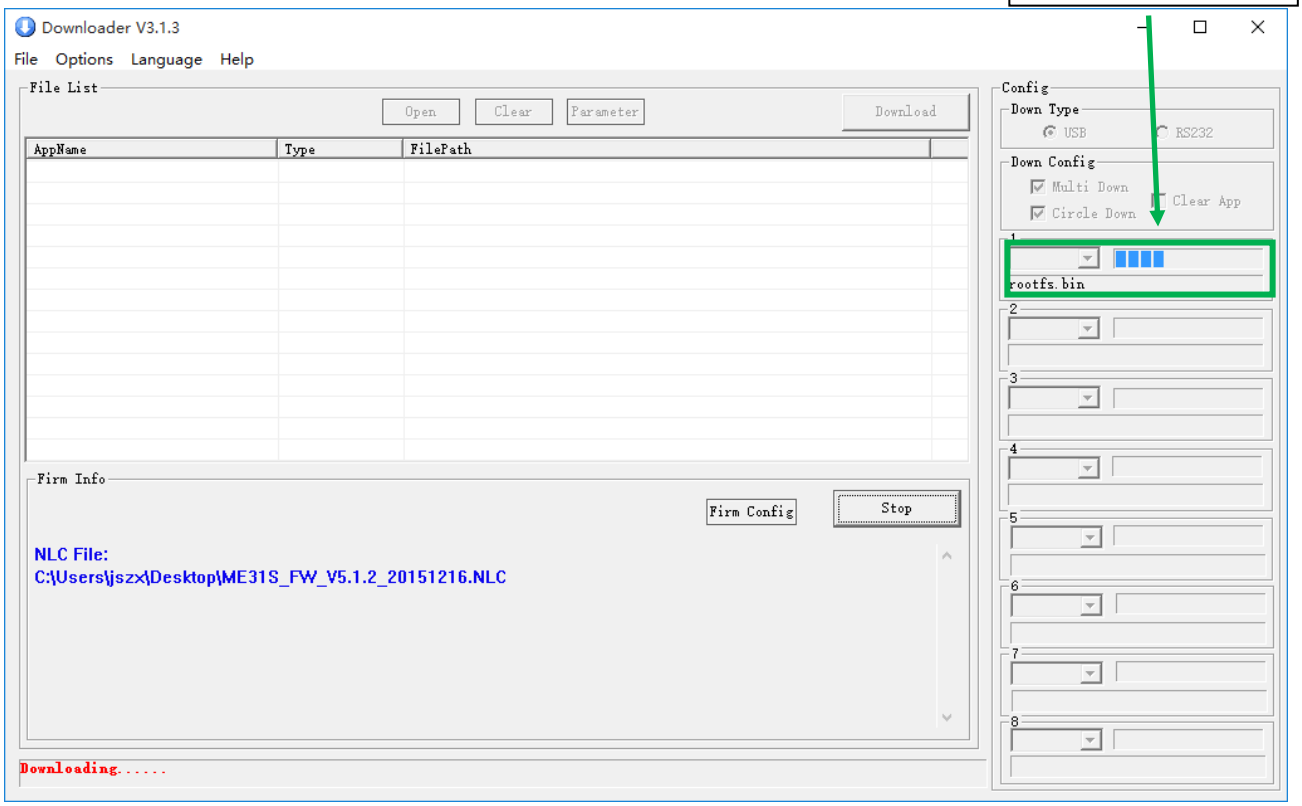
```
[Set]
Type=6
[FileList]
K21D.NLP=Program
QQ213.jpg=File
```

# 5. Download

Click the "Firm Down" or "Download" button, there will be a download progress prompt on the right side of the interface, and a download result prompt message.

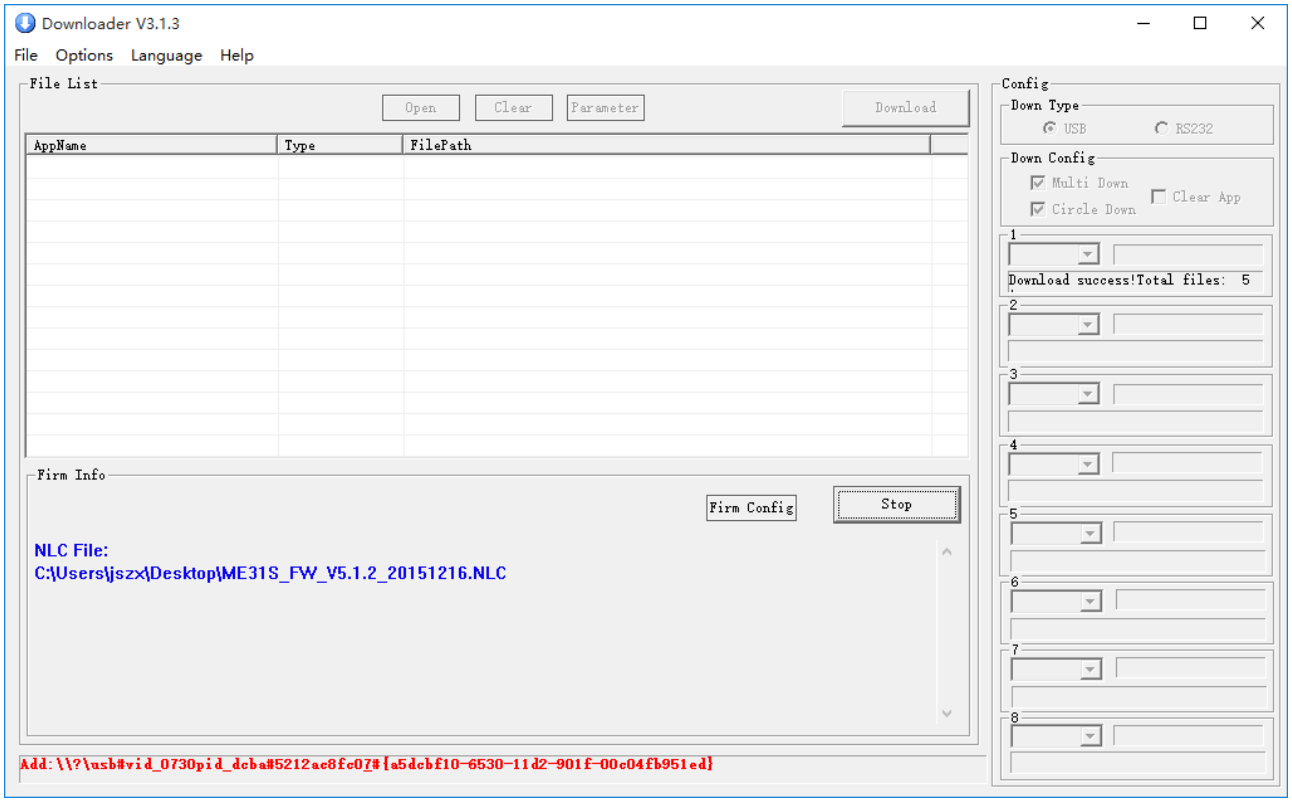
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Download status, progress




Download result

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## 6. Common Problem

- ✧ The download tool or device manager does not recognize the serial port
  If the driver is not installed, install the driver first. If the driver has been successfully installed and pos is also in the download state, try to replace the USB cable or reinstall the driver.
- ✧ USB cable is loose or powered off during download
  Re-download

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