

# **Magnetic stripe card Reader**

**MSR90**

**User Manual**

V1.0

03/01/2009

MSR90 is an intelligent, programmable MagStripe reader providing a wide range of functionality and value in a convenient package size. The entire unit is just 90 mm long, about the length of a credit card. It reads up to three tracks of information with a single swipe in either direction. It has a beeper and LED indicator to signal a successful read. The reader is programmable so that the data format and intelligent interface output can be programmed & configured to match application and communication requirements. Programming is easy using it's MsrConfig software.

## Features:

- Small footprint to fit in tight places
- Reads up to 3 tracks of information
- Bi-directional swipe reading
- Superior reading of high jitter, scratched, and worn MagStripe cards
- Reliable for over 1,000,000 card swipes
- Threaded inserts for mounting
- Reads ISO7811, AAMVA, & most other card data formats
- MsrConfig software makes configuration changes easy
- JPOS & OPOS support for all interfaces is provided

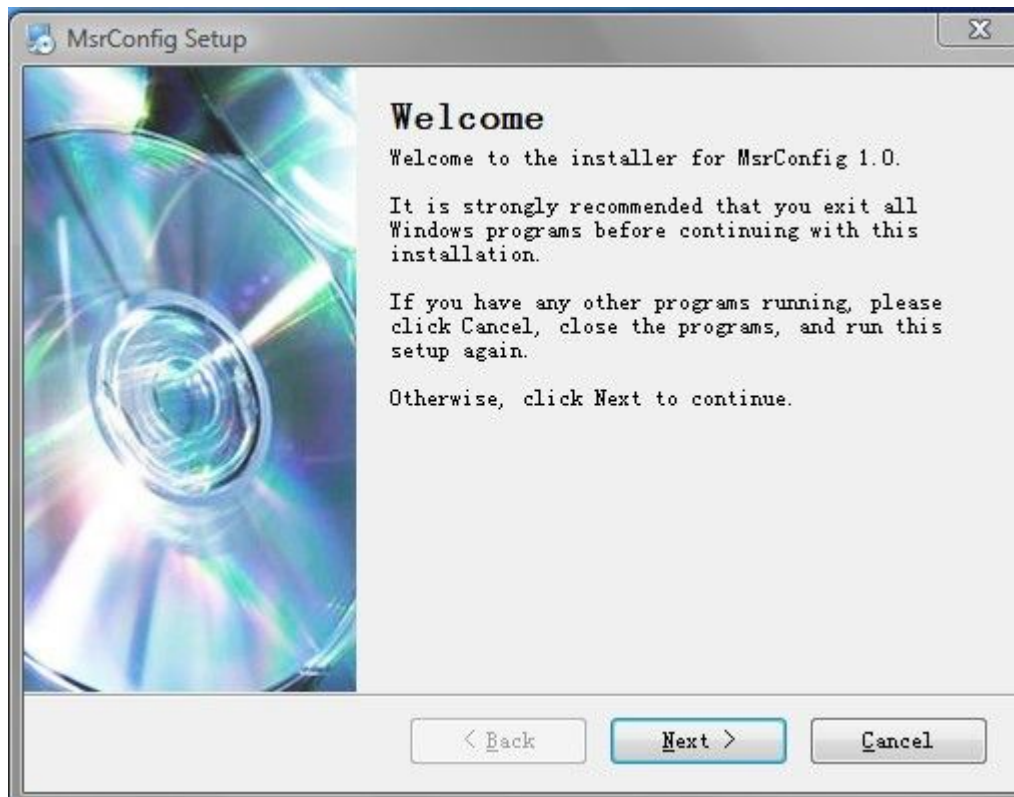
## General Information:

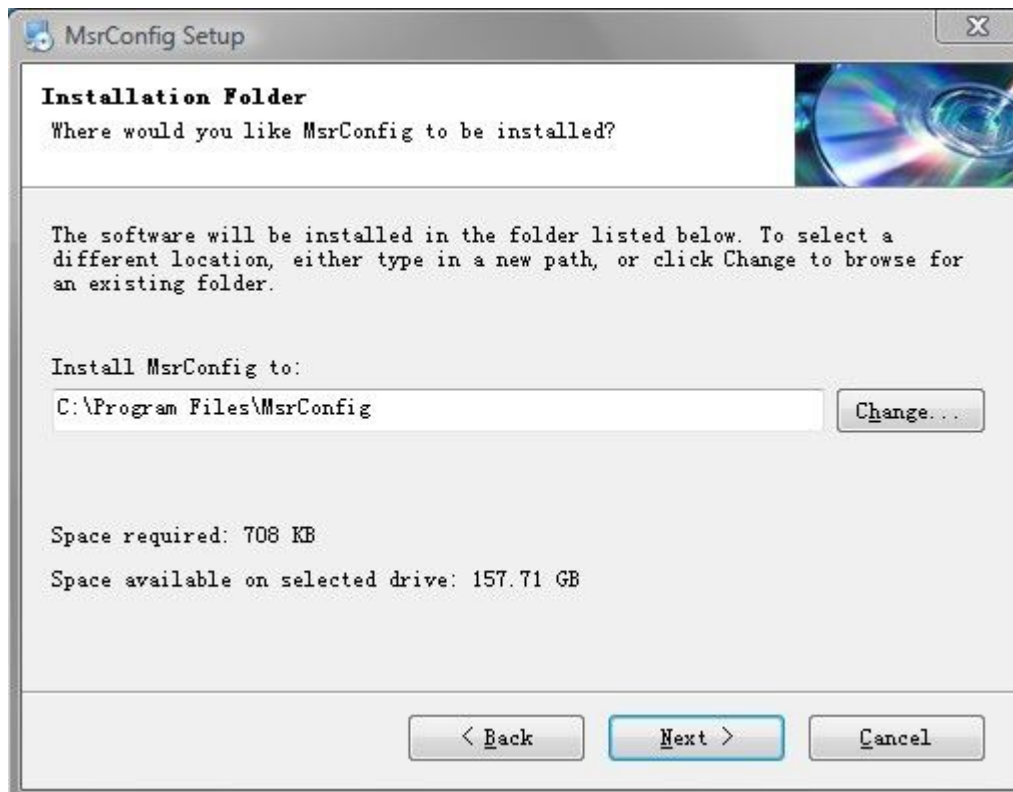
- Size: 90 x 27 x 29 mm (L X W X H)
  - Color: black
  - Swipe speeds from 3 to 60 inches per second
  - Interfaces: Keyboard, RS232, USB/Keyboard, USB/HID and RS232
- Port-Powered
- Fully supports USB 2.0
  - Housing:ABS
  - Operating Temperature:-20 to +60
  - Relative Humidity:90% non-condensing

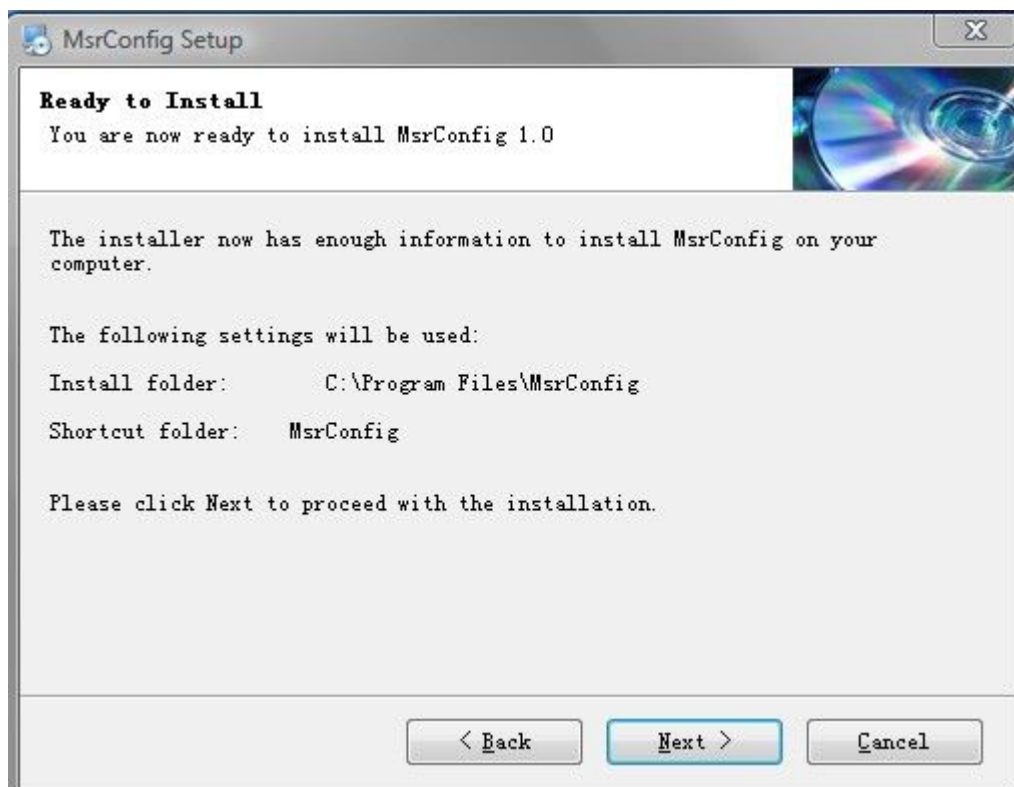
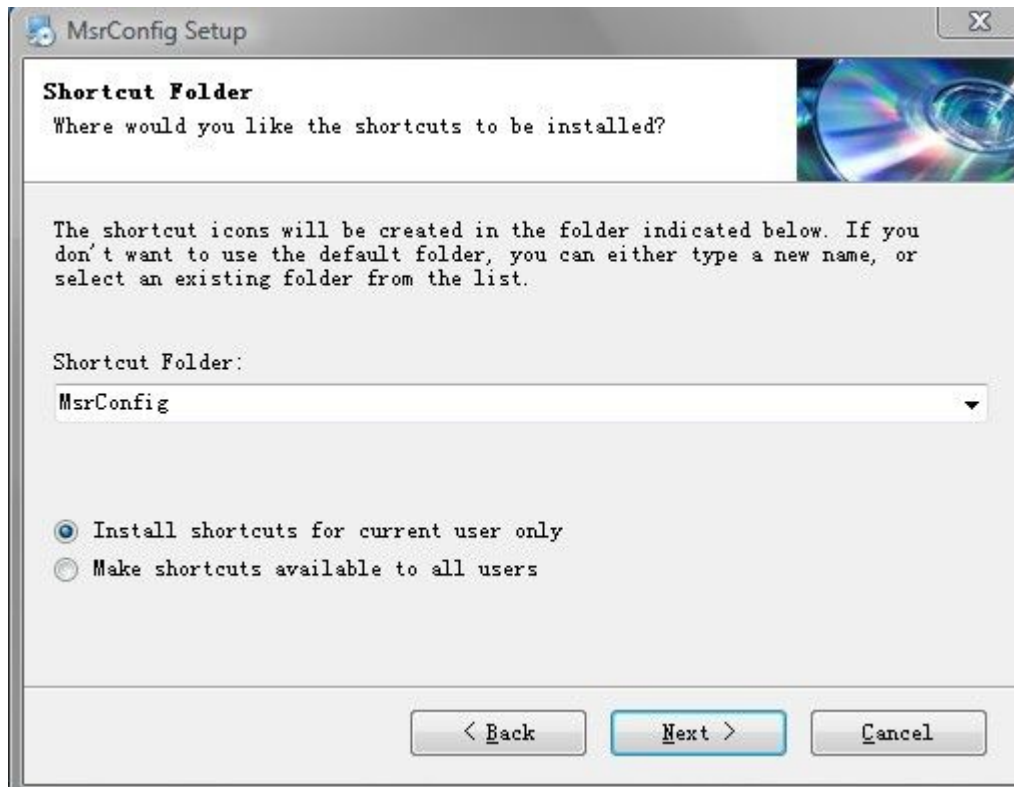
# »»»»»»» Quick start «««««««

1, Connection with PC by USB interface.

2, Setup the MsrConfig software.

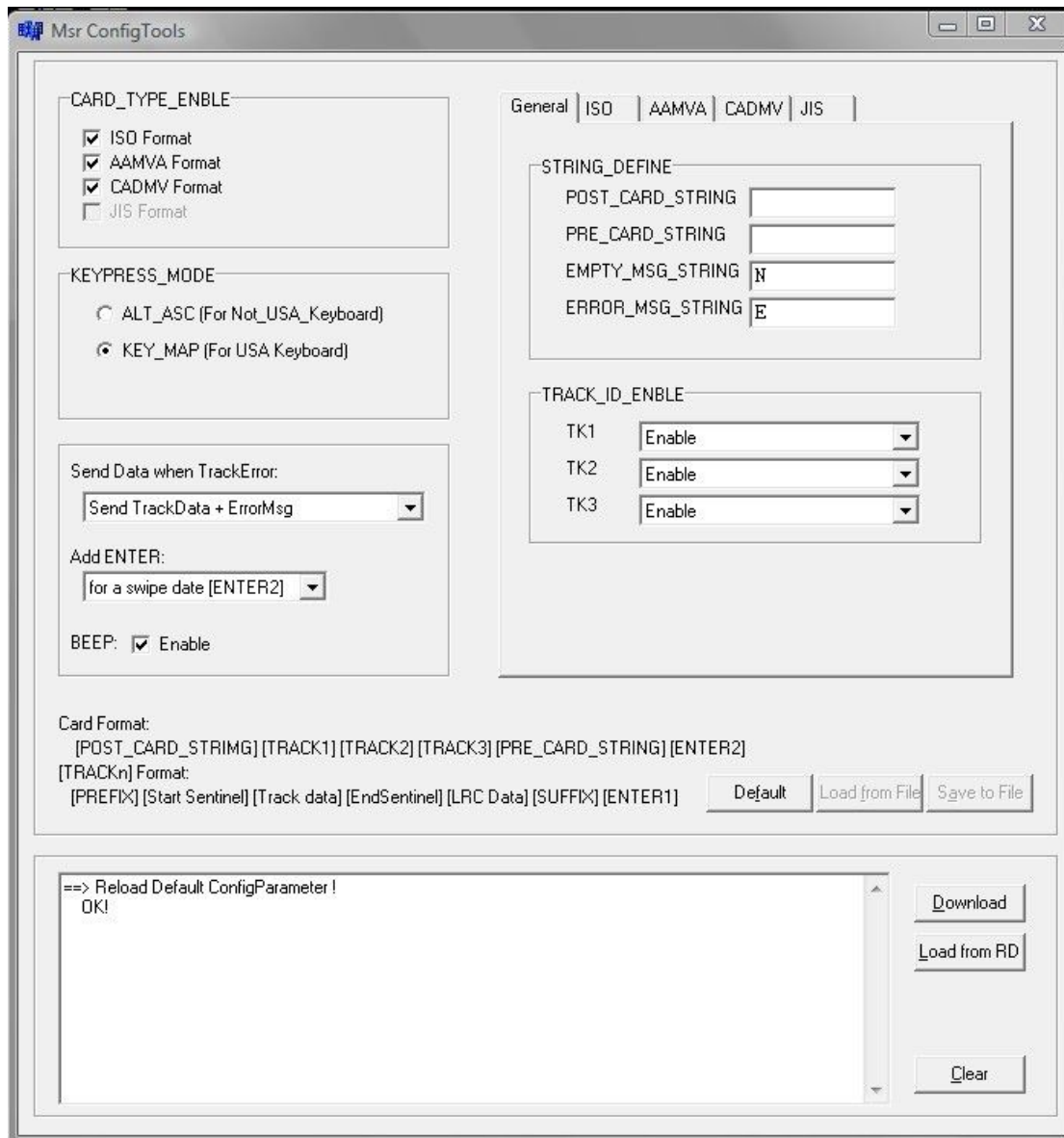






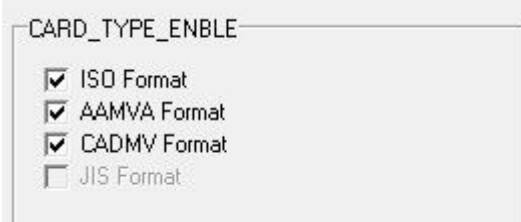


### 3,Run the MsrConfig software.



## 4,About the MsrConfig software.

### 4.1 Card type enable

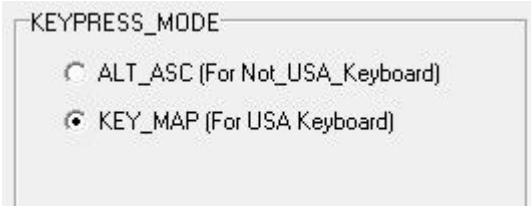


CARD\_TYPE\_ENABLE

- ISO Format
- AAMVA Format
- CADMV Format
- JIS Format

Note:The most of magnetic cards all ISO Format like credit cards,debit cards... Etc, The AAMVA Format and CA DMV Format are driver license card format.

### 4.2 keypress model

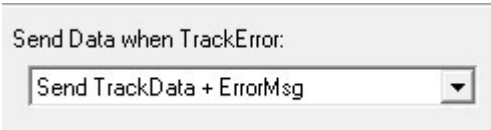


KEYPRESS\_MODE

- ALT\_ASC (For Not\_USA\_Keyboard)
- KEY\_MAP (For USA Keyboard)

Note: Choose the type of your keyboard(USA Keyboard or not).

### 4.3 Send data when track error



Send Data when TrackError:

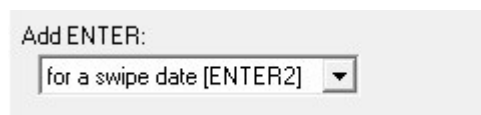
Send TrackData + ErrorMsg

Using with “[string define](#)”, the models:

- 1, No send any data
- 2, send good track data only)
- 3, send track data+errorMsg
- 4, send track data+errorMsg+EmptyMsg



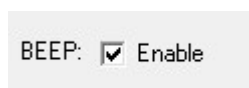
#### 4.4 Add enter



The models:

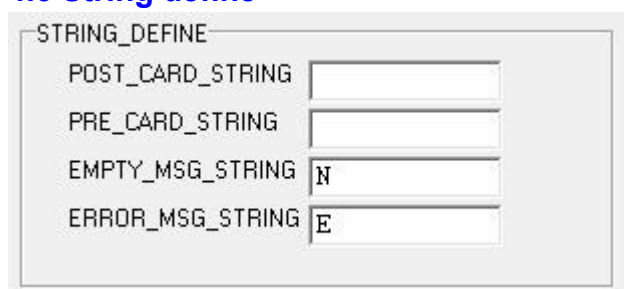
- 1, None enter
- 2, with enter for each track data
- 3, with enter for a swipe data

#### 4.5 Beep



Set the reader with Beep or not.

#### 4.6 String define



Note: Work with "send data when track error", setting the format of data output, example, there is a card data with full 3 tracks:

Track1: 111

Track2: 222

Track3: 333

Then data of output for default like this:

**%111? ; 222? +333?**

#### Post card string

Add string (like =) before the data, then the output is :

**= %111? ; 222? +333?**

#### Pre card string

Add string after the data, then the output is:

**%111? ; 222? +333? =**

### Empty msg string

Setting the format of blank track, example, the card without track1 then the output is:

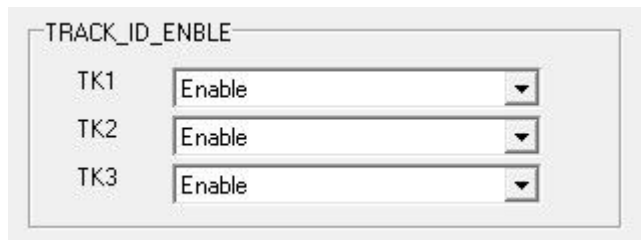
**%? ; 222? +333?**

### Error msg string

Setting the format of error track, example, the track 2 error, then the output is:

**%111? ; error? +333?**

### 4.7 track id enable



The image shows a configuration window titled "TRACK\_ID\_ENBLE". It contains three rows, each with a track identifier and a dropdown menu:

Track ID	Setting
TK1	Enable
TK2	Enable
TK3	Enable

Models:

Enable

Disable

Enable/Required(Error if blank)

## 4.8 ISO

The screenshot shows a configuration window for ISO format with three track sections:

- TRACK1:**  TRACK1.  Start Sentinel, PREFIX: % .  End Sentinel.  LRC Data, SUFFIX: ? .
- TRACK2:**  TRACK2.  Start Sentinel, PREFIX: ; .  End Sentinel.  LRC Data, SUFFIX: ? .
- TRACK3:**  TRACK3.  Start Sentinel, PREFIX: + .  End Sentinel.  LRC Data, SUFFIX: ? .

Note: Setting the format of track data, the default is ISO format:

**Track1:** % **data** ?

**Track2:** ; **data** ?

**Track3:** + **data** ?

Add String with track or not can be choose:

**Start sentinel** → **prefix**

**End sentinel** → **suffix**

**Lrc data**(yes or no)

## 4.9 Others

The screenshot shows a control panel with a message box on the left containing the text: "==> Reload Default ConfigParameter ! OK!". On the right side, there are three buttons: "Download", "Load from RD", and "Clear".

**Download:** Click this button will save your change and setting the reader.

**Load from RD:** Get info from the reader.

**Clear:** Clear the messages in the box.