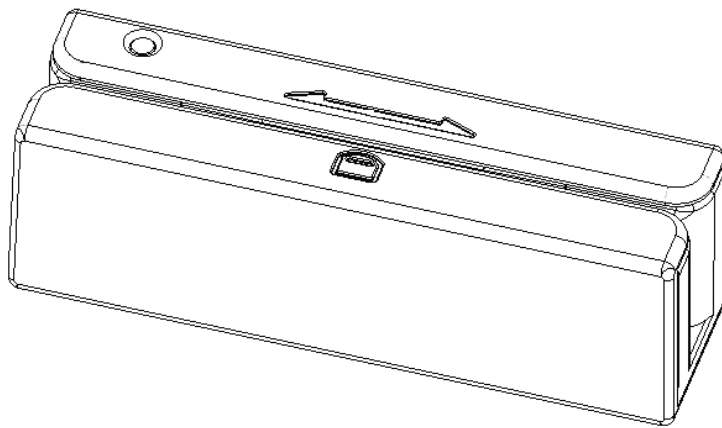


MSR600U



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一、 introduction:

MSR600U serial products are hand swipe operated magnetic card reading machine with USB interface, adopting high integrated magnetic card decoding chip. They have small electricity consumption and strong interference resistance. They comply with ISO-7811、7812 magnetic card decoding standard completely. It can read card bi-directional, free to choose data with or without enter keyboard has intelligent lights to alert if card data is read correctly. Exquisite magnetic installation structure makes card reading more stable and reliable, which is our patented technology. Reasonable product design makes products small and compact, The product has good compatibility, plug and play, do not need drivers, can work on Windows, Linux, Android, Mac os system.

二、 Features And Specifications

The USB (Universal Serial Bus) Keyboard Emulation Swipe Reader is a compact magnetic stripe card reader with a single read head that conforms to ISO standards. The Reader is compatible with any device with a USB interface. A card is read by sliding it, stripe down and facing the LED side, through the slot either forward or backward. A LED (Light Emitting Diode) indicator on the Reader panel provides the operator with continuous status of the Reader operations. The Reader emulates a USB Human Interface Device (HID) United States keyboard or optionally all international keyboards using ALT ASCII code keypad key combinations or customizable key maps. This allows host applications designed to acquire card data from keyboard input to seamlessly acquire the card data from the USB swipe reader.

Caution

If another keyboard is connected to the same host as this device and a key is pressed on the other keyboard while this device is transmitting, then the data transmitted by this device may get corrupted.

1. Features:

- 1&2&3 Track read
- Manual-swipe type reader
- Bidirectional card reading
- OPOS / JPOS driver support (Supported versions)
- USB HID interface (HID keyboard & HID custom)
- Reads encoded data that meets ANSI/ISO/AAMVA / JIS-II standards
- LED and buzzer operation status indication
- Head rated 800,000 passes, electronics rated 125,000 hours
- Power supplied by PC USB
- Support Windows、Linux、Mac os system
- DLL/OCX developing kit for Windows
- Card feeding Speed : 12 to 120 cm/sec

2. Configuration

The Reader, LED Indicator,USB connector adapter are shown in Figure 2-2.

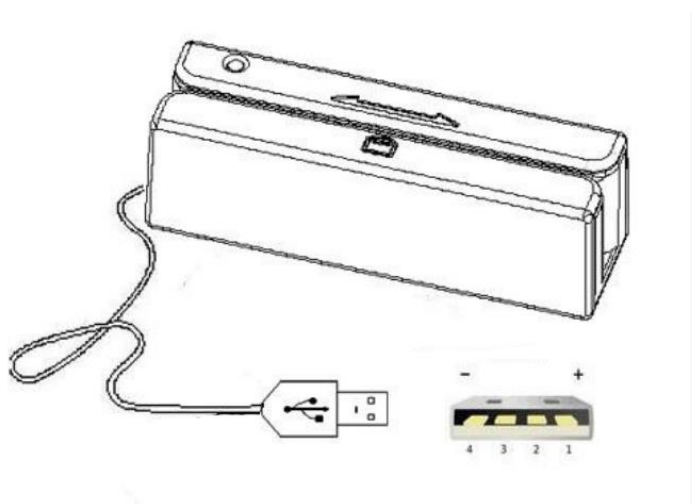


Figure 2-2

3. Specifications

a) Operating

Reference Standards	ISO/ANSI/AAMVA/JIS-II
Power Input	From USB interface
Recording Method	Two-frequency coherent phase (F2F)
Message	Format ASCII
Card Speed	3 to 60 in/s (7.6 to 152.4 cm/s) – forward or reverse
Head Life	1,000,000 passes

b) Electrical Characteristics

Power Supply	DC 5V +/- 5% (Supplied from the host computer)
Static current	Less than 20mA
Max current	Less than 100mA

c) Physical Characteristics:

Color	Black / White
USB cable length	1.5m
Static current	Less than 20mA
Weight	80g
Operating Locus	Indoor only
Dimensions	90mm (D) X 27mm (W) X 28mm (H)

d) Environmental

Ambient Temperature	Storage : -2 F to 158F (-30C to 70C) Operating : 32F to 158F (0C to 70C)
Ambient Relative Humidity	Storage : 10% to 90% noncondensing Operating : 10% to 90% noncondensing

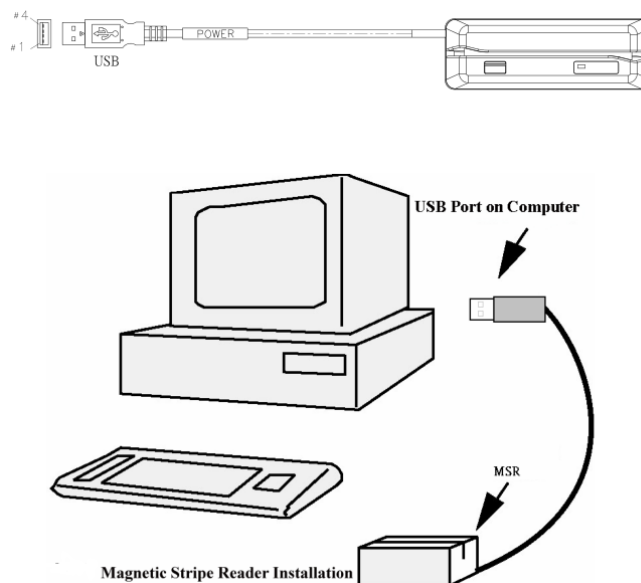
三、 Applications:

- ◆ POS System
- ◆ Security Control
- ◆ CAT(card authorization terminal)

四、 Installation

The hardware installation consists of plugging the cable into the PC USB Port

1. Connection diagram



2. Requirements

- MSR600U Swipe Reader
- MSR600U PC Demo

3. Mounting

The Reader can be mounted on a surface in three ways.

1. By two screws through the surface attached to the bottom of the unit and running the cable on the top of the surface.
2. By two screws through the surface attached to the bottom of the unit and by drilling a hole in the surface for the cable and running the cable through the hole.
3. By attaching the unit to the surface with 3M™ Dual Lock™ fasteners (or equivalent) and running the cable on the top of the surface.



Figure 3-3

Note

The two mounting inserts are 3 mm diameter; 0.5 mm pitch; 10mm deep. The length of the screws used depends on the mounting surface thickness and the thickness of washers (if used).

4. Installation And Test:

To install the Swipe Reader, perform the following steps:

1. Connect the card reader to the host USB port
2. Wait for the LED to stop flashing
3. Open the MSR test Demo and select MSR And select the MSR test interface
4. With the LED on, swipe a card. The data on the screen will show Track 1 beginning with “%” and ending with “?”. Track 2 begins with “;” and ends with “?”. Track 3 begins with “+” and ends with “?”.

The following is an example:

```
%B123^YIXIN^9812101000?;1122223333444?+123456789?<Enter>
```

If a track cannot be read, This orbit will be ignored; for example, if Track2 is bad and Tracks 1 and 3 are good, the display will be similar to the following:

```
%11111111111111111111?;+333333333333333333? <Enter>
```

If Tracks 1 and 3 are bad and Track 2 is good, the display will be similar to the following:

```
;2222222222222222222?<Enter>
```

五、 Operation

1. LED Indicator

A green/red LED indicator on the panel gives the operator the status of the Reader.

USB connection phase	Keep Flicker
Connection successful	Keep on
Read card successfully	Flicker once
Read card fail	Flicker 3 times

1. Buzzer Indicator

A Buzzer indicator gives the operator the status of the Reader, Users can set the state of the buzzer with programming tools.

Read card successfully	Ring once (about 100ms)(default) Can be closed by programming software.
Read card fail	Not indicated by default, can be opened through programming tools

2. Reader to Host message format

Track data is sent in the following order: SS, Card Data, ES.

The format in which data is transmitted (in track order) after a card is read successfully is as follows:

a) HID keyboard mode:

The card data is converted to ASCII and transmitted to the host as if it had been typed on a keyboard. If another keyboard is connected to the same host as this device and a key is pressed on the other keyboard while this device is transmitting, then the data transmitted by this device may get corrupted.

Default format:

Track	SS	ES	CR	Packet end CR
1	%	?	No	Yes
2	;	?	No	
3	+	?	No	

Data packet(Default):

%	Track 1 data	?	;	Track 2 data	?	+	Track 3 data	?	CR
---	--------------	---	---	--------------	---	---	--------------	---	----

- b) SS & ES length: 0-1 (Generic version)
- c) SS & ES length: 0-20 characters and can be set with tools (Only supported by some products)

d) HID custom mode:

Please read the DLL/OCX instruction

六、 Configuration tool

The card reader can set different parameters and working modes through the configuration tool. Usually, the user can use the default Settings to meet the requirements. configuration tool shown in Figure 5-1.

MSR600U Magnetic Stripe Card Reader

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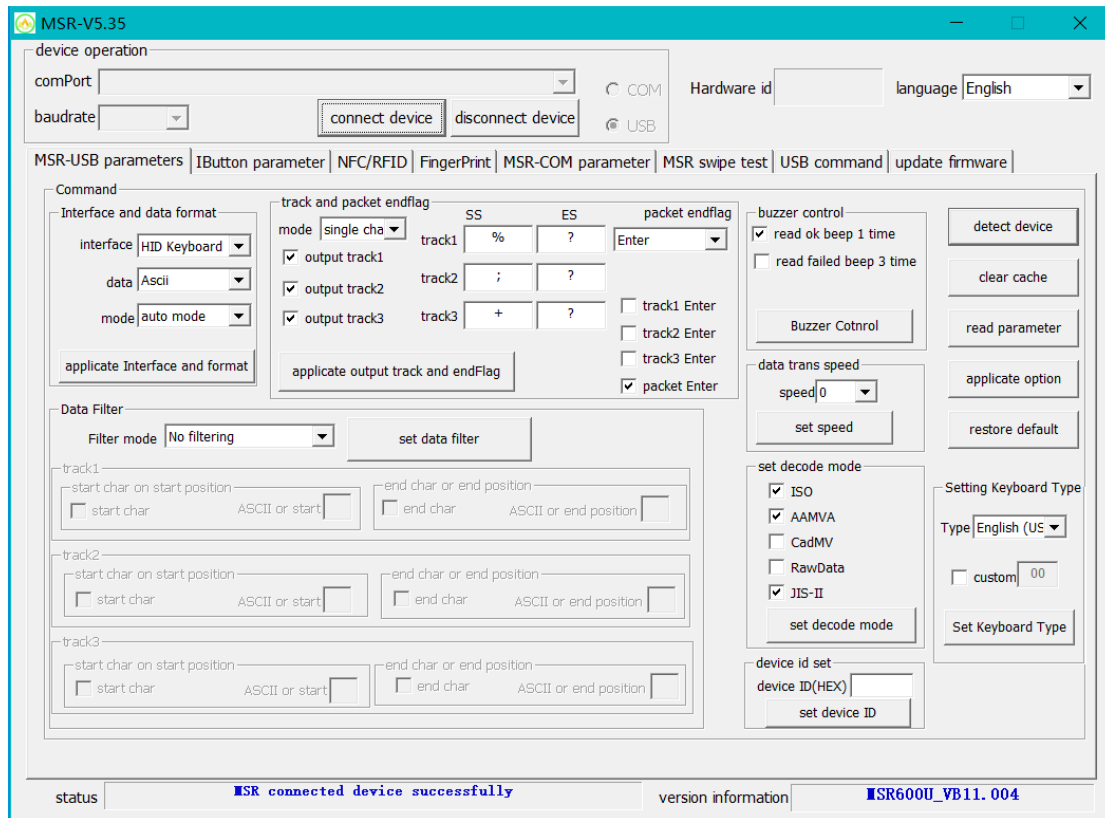


Figure 5-1

七、 Outline drawings

MSR600U Magnetic Stripe Card Reader

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