MSR 120 SERIES

Magnetic Stripe Card Reader

Universal Serial Bus (USB) Interface

Thank you for purchasing the MSR120 series products. The MSR120 Series USB Interface Magnetic Card Reader is ideal for retail systems, time keeping systems, security systems and the card reader related systems. The MSR120 series are designed to offer the user a card reader solution that will complement many applications. Triple track MSR120 reader is uniquely designed to read both credit cards and Driver Licenses (AAMVA and California standard).

FEATURES

1	Light weight: 120g
2	Compact size: 100L*34W*28H (mm)
3	LED and Buzzer indicators indicate card status
4	Low power consumption
5	Single, dual, or triple track versions allow for reading all types of magnetic cards, including credit cards and drivers licenses.

CONFIGURATION

MSR120-33 Triple track 1&2&3

AGENCY APPROVED

- Comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules.

- Comply with CE mark Class A, UL, and cUL

WARRANTY

This product is served under one-year warranty of defects in material and functionality to the original purchasers. Within the warranty period, if the product found to be defective will be repaired or replaced. This warranty applies to the products only under the normal use of the original purchasers, and in no circumstances covers incidental or consequential damages through consumers' misuse or modification of the product.

WARNING

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

SET-UP

1) Turn the system power off.

2) Connect PC and MSR120 USB connector of signal cable to a free USB port

3) Turn the system power on.

4) Install USB driver *(ref. to Appendix A)*

SPECIFICATIONS

Recording Method: Two-frequency coherent phase (F2F), compatible with ISO 7811 and AAMVA.

Swipe Speed: 5 to 50 in/sec (worst case with +/- 12% jitter card)

Power Requirements: 5VDC/120mA

Communication: Standard USB signal levels (comply with USB specification v 1.1)

Operating Temp: - 10°C to + 50°C   Storage Temp: -30°C to +70°C

Operating Humidity: 10% to 85% relative humidity

Magnetic Head Life: 500K swipes Min. 1M option

Dimensions: 100mm in L x 34mm in W x 28mm in H

Weight: 120g

Signal Cable Length: 1.7M

OUTPUT DATA FORMAT

DUAL TRACKS: <SS><TRACK1 or 2 DATA><ES><SS><TRACK2 or 3 DATA><ES>

TRIPLE TRACKS: <SS><TRACK1 DATA><ES><SS><TRACK2 DATA><ES><SS><TRACK3 DATA><ES>

For ISO card: SS (Start Sentinel)="%" (Track 1), and ";" (Track 2 & 3); ES (End Sentinel)="?" (Track 1, 2, & 3)

➢

➢ **SETTING OPTION** by USING utility disk

Parameter	Default Setting	Option
SS, ES CODE	Exist*	Non-exist
Buzzer	Enable*	Disable
FACTORY SETTING AT TIME OF SHIPPING		

NOTICE: The issuer of this manual has made every effort to provide accurate information. The issuer should not be held liable for any technical and editorial omission or errors made herein; nor for incidental consequential damages resulting from the furnishing, performance or use of this material. This document contains proprietary information that is protected by copyright. All rights are reserved. No part of this document may be photocopied, reproduced, or translated without the prior written consent of the issuer. The information provided in this manual is subject to change without notice.

Appendix A USB Driver Installation

➢   This section illustrates instructions in **the USB driver installation guide for Windows 95/98**.

➢

➢   **System Requirements**

Before you use the MSR120, make sure your computer is an IBM PC-compatible with the following minimum system requirements:

1. Intel-compatible 486DX-66 MHz CPU or higher

2. One standard USB port (4-pin) and has the symbol

3. Either the following operating systems:

   Windows 95 OSR2.1 (B version) with USB version 1214, Windows 98, Windows 98 SE, or Windows 2000.
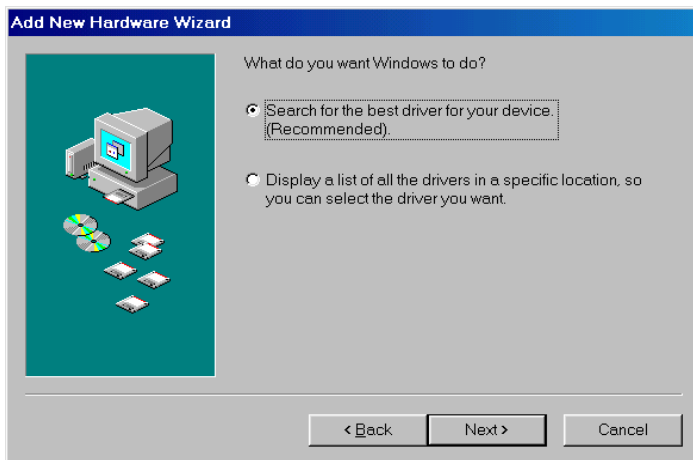
➢

➢   **Driver Installation**

Follow the steps below on installing the MSR120 for the first time:

1. Power on computer where you will connect the MSR120 and make sure that the USB port is enabled and working properly.

2. Plug in the USB cable into the USB port and Windows will detect an USB Device and run the **Add New Hardware Wizard** to assist you in setting up the new USB Composite Device.
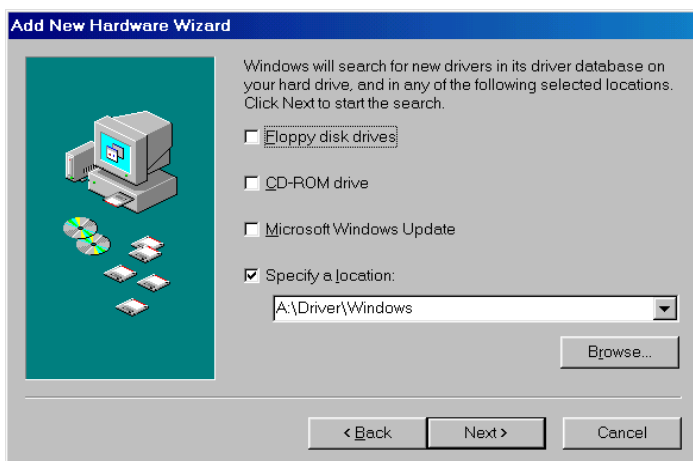
3. Insert the USB driver diskette (DISK 2) into the floppy drive and click **Next** to continue:

　　a. Select **Search for the best driver for your device** and click **Next**.

　　b. Select **Specify a location** and click **Browse**. Change the folder of your floppy drive

　　　(i.e.: **A:\Driver\Windows**) and click **OK**.

　　c. Double-check the directory that Windows prompts. Click **Next**.

➢   **--- Proprietary and Confidential ---**

d. Windows will detect the driver (**SER9PL.inf**) and shows the USB Card Reader.

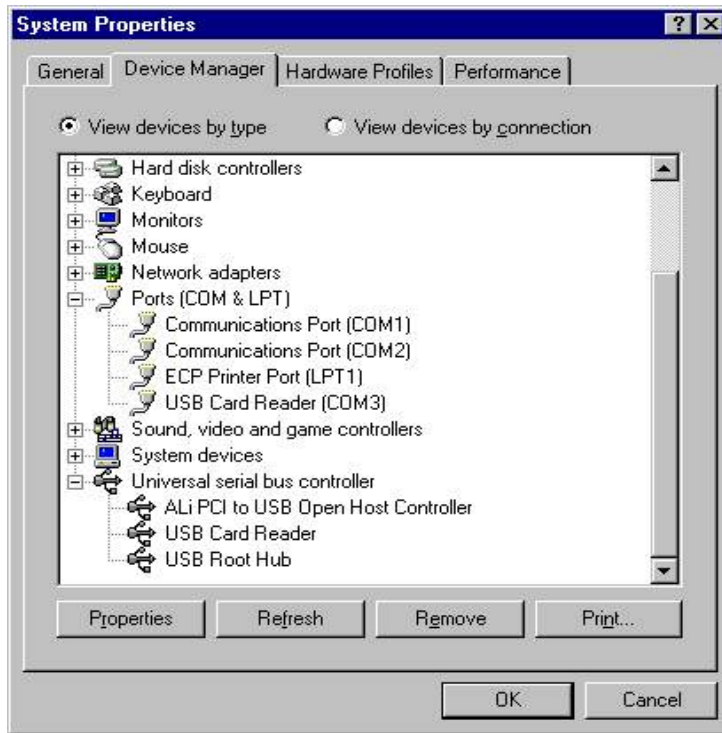Click **Next** to continue until installation is complete.

e. Click Next to continue and let Windows copy the needed files to your hard disk.

Click **Finish** while installation is complete.

f. After installing, the System will generate an additional COM Port, USB Card Reader (e.g.: COM3) for the connection to

RS232 Serial Device.

➤ Driver Un-installation

You can uninstall the MSR120 driver by executing **Uninstall Program: Dremover98.exe** in the driver diskette and click the

Remove button to accomplish the un-installation.

➤