

SPECIFICATIONS

- Recording Method:** Two-frequency coherent phase (F2F), compatible with ISO 7811 and AAMVA.
- Swipe Speed:** 5 to 55 in/sec (worst case with \pm 12% jitter card)
- Power Requirements:** Reader is low-power CMOS. The computer supplies power.
- Communication:** Keyboard simulator interface
- Operating Temp.:** -10 to + 50 **Storage Temp:** -30 to + 70
- Humidity:** Operating: 10-85% (non condensing);
Storage: 10-90% (non condensing)
- Magnetic Head Life:** 500K swipes Min. (1M swipes optional)
- Dimensions:** 90.6L x 22W x 24H mm (3.56L x 0.86W x 0.94H inch)
- Weight:** 60g

OUTPUT DATA FORMAT

SINGLE TRACK: <SS><TRACK1 or 2 or 3 DATA> <ES><CARRIAGE RETURN>

DUAL TRACKS: <SS><TRACK1 or 2 DATA><ES><CARRIAGE RETURN>
<SS><TRACK 2 or 3 DATA> <ES><CARRIAGE RETURN>

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

SS=START SENTINEL TRACK1 “%” (ISO, DMV & AAMVA)
TRACK2 “;” (ISO, DMV & AAMVA)
TRACK3 “,” (ISO) “%” (AAMVA) “!” (DMV)

ES = END SENTINEL TRACK1 & 2 & 3 “?” (ISO, DMV & AAMVA)

Data characters *in italics* are optional!

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.

Using the Configuration Mode to Configure the Card Reader.

How to enter Configuration Mode

1. Power off PC, connect the reader with PC and then power on. (or re-connect MSR with PC.)
2. Execute text editor program such as Notepad, DOS PE2, Edit, ... etc.
3. In sequence to press and hold [left-Ctrl], [Left-Alt] and [F10] keys → then a message showed “**Press '1' to enter configuration mode, press other keys will be returned**”. To press 1 key from top-center number keys to enter “**CONFIGURATION MODE**”.
(Remark:

*All settings can be only selected by top-center number keys, and uses space bar to exit. Any typing error keys will make the “Configuration Mode” exit, and MSR indicates 1 long beep sound. Please try again by press and hold [left-Ctrl], [Left-Alt] and [F10] keys, or reset MSR by reconnect its PS/2 port from PC.

*MSR allows user to change any setting within the MSR read card within 20 times after setting.

* Define Sounding: When 1 long beep sounds, it means user has pressed wrong key for setting.

2 beeps short sound, it means user set as default setting;

3 beeps sound, it means user has exited from “Configuration Mode”.

4. When under Configuration Mode, the red LED is “On”, please follow the instructions shown on the screen.

5. The main menu of **Configuration Mode** is listed below:

* CONFIGURATION MODE *

1. SET INTERFACE
2. SET MAGNETIC STRING
3. SET STRING EDITIN
4. SET BUZZER
5. RESET TO DEFAULT
6. SHOW STATUS

Space. EXIT SET UP MODE

How to exit Configuration Mode

Once user chose “Space key” to exit **Configuration Mode**, the MSR will be reset and executed updated settings.

The Setting Selections are as below:

Key	Category	Options	Remark
1	SET INTERFACE	1:Set Keyboard Country	1**Set Keyboard Country** 1:U.S. 2:Deutsch 3:French 4:U.K. English 5:Spanish 6:Italy 7:Dutch 8:Japanese 9:Swedish 0:Back READER STATUS = U.S.
		2:Set Transmit Speed	2**Set Transmit Speed ** 1:25 Character/ Sec 2:40 Character/ Sec: 3:60 Character/ Sec. 4:80 Character/ Sec. 5:120 Character/ Sec. 0: Back Reader Status = 80 Char/ Sec.
		3:Firmware Version and Date 0:Back	3**Firmware version and date ** MSR 7.1

Xm130 MSR SIMPLE MANUAL

2	SET MAGNETIC STRING	1: Set Enable Tracks	1**Enable Tracks** 1:Track 1 2:Track 2 3:Track 1,2 4:Track 3 5:Track 1,3 6:Track 2,3 7:Track 1,2,3 0:Back Reader Status=Track 1,2,3
		2: Set Require Tracks	2**Set Require Tracks** 1:Track 1 2:Track 2 3:Track 1,2 4:Track 3 5:Track 1,3 6:Track 2,3 7:Track 1,2,3 8:Any Track 0:Back Reader Status =Any Track
		3: Carriage Return	3**Carriage Return** 1:Don't Send Carriage Return 2:After All Tracks 3:After Each Track 4:After All Data (Includes Preamble & Postamble) 0:Back Reader Status =After Each Track
		4: Transmit SS/ES	4**SS/ES Send** 1:Send 2:No Send 0:Back Reader Status = Enable
		5: Caps Lock	5**Caps Lock** 1:Enable 2:Disable 0:Back Reader Status = Enable
		6: Track Output Order	6**Track Output Order** 1:First 2:Second 3:End 0:Back Reader Status=Track 1,2,3
		7: Changes Carriage Return Code	7**Change Carriage Return Code** 1:Change 2:Reset 0:Back Reader Status = [Enter]
		8: No Data Output	8**No Data Output** 1:Enable 2:Disable 0:Back Reader Status = Disable
		9: Empty Send Data	9**** EMPTY DATA OUTPUT **** 1. Enable 2. Disable 0. Back READER STATUS = Enable
		0: Back	
3	SET STRING EDITING	1: Set Prefix	1*** Set Prefix *** The track 1, 2, 3 prefix are 1-6 character strings that are transmitted prior to the track data.

		2: Set Suffix	"Enter prefix (6 chars max.) then press ` when finished." 2** Set Suffix ** The track 1, 2, 3 suffix are 1-6 character strings that are transmitted after to the track data. "Enter suffix (6 chars max.) then press ` when finished." 3**Set Magnetic Stripe Preamble** The preamble is a 1-6 character string that is transmitted before all card data. "Enter preamble (6 chars max.) then press ` when finished." 4**Set Magnetic Stripe Postamble** The postamble is a 1-6 character string that is transmitted before all card data. "Enter preamble (6 chars max.), then press ` when finished."
		3: Set Magnetic Stripe Preamble	
		4: Set Magnetic Stripe Postamble	
		PS. Capitals and lowercase letters setting: (CR & String Editing): When type any key, MSR will show "Press 1 to Add Shift" to set for caps or lowercase letters. i.e. When type "a", MSR will show "Press 1 to Add Shift (aA)", if press "1", the MSR will swap "a" to be "A" and save it. If not press 1, MSR will save it as "a".	
4	SET BUZZER	***Set Buzzer Enable/Disable*** 1:Enable 2:Disable 0:Back Reader Status = Enable	
5	RESET TO DEFAULT	1:Reset to Default 0:Back	
6	SHOW STATUS	Keyboard country= U.S.* Transmit speed= 80 Character/sec* Enable tracks= track 1, 2, 3* Require tracks= any track* Carriage return= after each track* SS/ES send= enable* Caps lock= enable* Buzzer= enable* Data output= 1, 2, 3* Press 0 to back	* Default Setting
Space.	EXIT SETUP MODE		