

## MH-ET live Scanner v3.0

### scanner User Manual

QR code barcode Identification module  
Scanning module serial  
communication **UART/HID**  
interface embedded

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## Disclaimer

Please read all contents of this manual carefully before using the product described in this manual to ensure the safety and correctness of the product . Use it correctly. After reading, please keep this manual properly and prohibit copying and dissemination without authorization.

The pictures and parameters in this manual are for reference only. If any individual pictures or parameters are inconsistent with the actual product, please contact The actual product shall prevail. For the improvement and update of this product, the company reserves the right to modify the document at any time without prior notice right. The company has the final right of interpretation of this statement.

## version record

version number	Version description	release date
V1.0.0	initial version.	2018-11-08
V1.0.1	1. Added horizontal mirror setting and vertical mirror setting 2. Changed some default values	2019-09-19
V1.1.2	1. Added sensitivity setting 2. Added time interval setting after the end of exposure mode	2020-06-30
V1.2.0	Modify the serial port settings after factory restoration	2020-09-03

Table of contents

<b>Disclaimer</b> .....	2
<b>Chapter One start</b> .....	6
Introduction .....	6
About this manual .....	6
<b>Chapter two System Settings</b> .....	6
restore factory default .....	6
User Defaults .....	7
Use setup code .....	7
<b>third chapter Communication interface</b> .....	8
serial communication interface .....	8
baud rate .....	8
USB-HID interface .....	10
USB virtual serial port (VCP) .....	10
<b>Chapter Four Read mode</b> .....	11
Continuous mode .....	11
Sensing mode .....	11
Sensing mode night vision function .....	11
Manual trigger mode .....	12
Command mode .....	12
Instruction Continuous Mode Sleep Setup .....	12
Horizontal mirror-enable .....	13
Vertical mirror-enable .....	13
Same code recognition delay setting .....	13
Single reading time setting: .....	14
Reading interval time setting: .....	14
Sensitivity Mode Sensitivity Settings .....	15
<b>chapter Five Command mode</b> .....	16
<b>Chapter Six illumination</b> .....	17
Lighting .....	17
<b>Chapter VII Prompt output</b> .....	20
Reading success sound .....	20
<b>chapter eight Output format settings</b> .....	26
Automatically add newline switch .....	26
Automatically add TAB switch .....	26
Automatically add prefix switch .....	26
Automatically add suffix switch .....	27
Command trigger mode response setting .....	27
Code system differentiation function settings .....	27
Letter case switch .....	28
<b>Chapter nine Barcode settings</b> .....	29
Operations on all 1D barcode symbology types .....	29

---

Operations on all 2D barcode symbology types ..... 29

---

1D barcode type .....	30
Code39 .....	30
Code128 .....	30
UPC/EAN/JAN .....	31
Code93 .....	31
Interleaved 2 of 5 .....	31
Codabar .....	32
Code 11 .....	32
Matrix 2 of 5 .....	32
MSI code .....	33
Industrial 2 of 5 .....	33
GSI Databar .....	33
2D barcode type .....	34
QR code .....	34
MicroQR code .....	34
PDF 417 .....	34
Data Matrix .....	35
<b>Appendix</b> .....	<b>36</b>
Appendix A Default Setting Table .....	36
appendix B CODE ID definition .....	38
appendix C instruction description .....	39

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## Chapter One start

### Introduction

The product adopts a professional image processing chip for barcode recognition, Able to maintain fast and stable code reading in complex environments Under the high performance of It also has the characteristics of low power consumption and low heat generation. Quick boot, cold start and hot start

Keep turning on quickly, no need to wait, just turn on and scan.

and 2D codes on paper, screen, plastic and other carriers .

### About this manual

This manual mainly provides instructions for setting various functions of the product . By scanning the setup function barcode in this manual, Can

To change functional parameters such as communication interface parameters, read work mode, prompt mode, data processing and output, etc.

## Chapter two System settings

### restore factory default

Note: Please use "restore factory default" with caution" function, after reading this setting code, the current parameter settings will be lost. set, Restore to factory default. The factory default parameters and functions can be found in Appendix A.



~MA5F01B2C.  
reset



## User Defaults

In addition to the factory default settings, you can save long-term settings as user default settings.

reads "Save User Defaults" code will save all parameters of the QR code scanner as user default settings. If there is already user default configuration information on the QR code scanner, the current configuration information will replace the original user default configuration after this operation.

configuration information. Read "Restore User Defaults" will switch the engine to the state set by the user's default settings.

Note: After restoring the factory default settings, the previously saved user default settings will not be lost.



~MA5F0506A.  
Save user defaults



~MA5F08F37.  
Restore user default

## Use setup code

Read "Scan code configuration function setting: open" barcode enables the QR code scanning engine to open by reading a specific barcode Configured function (setting code function). After the function is turned on, Two can be paired by reading the setting code of one or more QR code scanning engine for parameter modification. After the setting is completed, you need to read "Save User Default" to save it. Ran After reading "scan code configuration function setting: off"Close the setting code, Enter normal scanning mode.

Read "Scan code configuration function setting: off", the QR code scanning engine can only read and process the "Scan code configuration function" setting: open"Setup code.



~M00910001.

Scan code configuration function  
setting: open



~M00910000.

Scan code configuration  
function setting: off

## third chapter Communication Interface

The QR code scanner provides USB or TTL-232 communication connection with the host. Through the communication interface, it is possible to receive and read Data, issuing instructions to control the QR code scanner, and changing the functional parameters of the QR code scanner, etc.

### serial communication interface

The serial communication interface is a common way to connect the QR code scanner and the host device. When using a serial communication interface, The communication parameter configuration between the QR code scanner and the host device must completely match to ensure smooth and reliable communication. The content is correct.

The TTL3.3V format can be connected to most application architectures. For some systems that need to use the RS-232 interface, it must Level conversion is required.

The default serial communication parameters of the QR code scanner are as follows. If they are inconsistent with the host device, you can read the setting code to modify.

parameter	default
Serial communication type	Standard TTL 3.3V
Baud Rate_	9600 bps
Parity Type	None _ _
Data Bits	8
Stop Bits	1
Hardware Flow Control	None _ _

### baud rate

The unit of Baud Rate is bits per second (bps: bits per second ), optional configuration

---

The parameters are as shown in the table below.



~ MO OF 50000.  
1200



~ MO OF 50001.  
2400



~ MOOF 50002.  
4800



~ MO OF 50003.  
9600



~ MO OF 50004.  
19200



~ MO OF 50005.  
38400



~ MO OF 50006.  
57600



~MOOF50007.  
115200

## Open serial port

The module needs to set the serial port to open in order to use the serial port command or serial port output function. The module has set the serial port to open for the user , but restoring the factory settings will close the serial port, so it is best to scan it when using the serial port. code to confirm to enable the serial port function.



Serial port open

## USB – HID interface

Using the jumper cap, you can directly set the QR code scanning module to the **USB - HID** function, and the module can be considered as a human body. Input learning device, scanning the QR code will automatically input the scanned QR code content into the computer text similar to the keyboard . This feature requires the appropriate driver to be installed on the host machine.

## Chapter Four read mode

### continuous mode

Continuous mode: Automatically start decoding after power-on, after successful or failed decoding, wait for a period of time and then automatically start the next decoding



~M00210001.

continuous mode

### induction mode

Induction mode: When the device detects that a barcode appears within the window range, it will trigger a decoding



~M00210002.

induction mode

### Induction mode night vision function



~M00260001.

---

Sensing mode night vision function:  
turn on



~M00260000.

Sensor mode night vision  
function: off



## Manual trigger mode

In trigger mode, when the trigger control interface of the reading engine changes to the trigger level, the reading engine starts shooting and recognizing.

Read; in "Single reading time "Within the limited time range, if the trigger level is maintained, the shooting and reading will continue until successful. When the trigger level is cancelled, or the reading exceeds the time limit for a single code reading, the shooting and reading will be stopped. read into When successful, the reading engine will output the edited content through the communication interface.

Level trigger (Level)/pulse trigger (Pulse)  
mode



~M00210000.

level triggered mode



~M00210004.

Pulse trigger mode

## command mode

Command mode: After sending the start decoding command after power-on, the device will continue to decode until it receives the stop decoding command.



~M00210003.

command mode

## Instruction continuous mode sleep setting



~M00220001.  
Enable hibernation



~M00220000.  
turn off hibernate

## Horizontal Mirroring - On



~M00240001.

turn on



~M00240000.

closure

## Vertical Mirroring - On



~M00250001.

turn on



~M00250000.

closure

## Same code recognition delay setting

In non-manual mode, Set "same code reading delay" The reading device automatically starts the next code reading after one code reading is completed. If the barcode is exactly the same as the last barcode that was successfully read, the reading engine will be in a continuous waiting state. Decoding cannot be successful until the same code reading delay has expired. When the barcode does not repeat, the reading device will continue to read the code.



~MOOB00000.  
no delay



~ MOOB 00001.  
Delay 100mSec



~MOOB00000A.

Delay 1Sec



~MOOB00064.

Delay 10Sec

### Single reading time setting:



~ MOOB 10000.

Single reading time setting: no  
delay



~ MOOB 10032.

Single reading time setting: 5  
seconds

### Reading interval time setting:



~ MOOB 20000.

Reading interval setting :no  
delay



~ MOOB 2000A.

Reading interval setting :1  
second

## Sensing mode sensitivity setting

Sensing mode sensitivity refers to the proportion of image changes required to wake up for code reading. The proportion of changes required for Level 0 It can be woken up when the case is low, so the wakeup speed is faster. Level 0 is high sensitivity, level 1 is medium sensitivity, level 2 is low sensitivity.



~M00230000.

Induction mode: sensitivity  
level 0



~M00230001.

Induction mode: sensitivity  
level 1



~M00230002.

Induction mode: sensitivity level 2

## chapter Five command mode

In different application scenarios, there will be different needs. The module specially designed the instruction setting mode, which can be implemented Functions that can be set by command or by scanning the QR code. The command format is as follows :

Command type	Command content	illustrate
Setting parameters	~Mxxxxyyy.	M: Settings ; xxxx: Commands ; yyy: value
Set response	[ACK]	successful setting
	[NAK]	Valid command, invalid value
	[ENQ]	invalid command
query parameters	~Qxxxx.	Q: query ; xxxx: command ;
query response	xxxxyyy[ACK]	xxxx: command ; yyy: value
	[ENQ]	invalid command
Trigger code scan	~T.	Start scanning the code
	~D.	Stop scanning
trigger response	T[ACK]	trigger success
	T[NAK]	Trigger failed

## Chapter Six illumination

### illumination

Normal mode: The lighting group lights up when shooting and turns off at other times.

Sensing mode: The lighting group lights up after the QR code scanner is turned on. Off at other times.

Always on mode: After the QR code scanner is turned on, the lighting group Keep glowing .

Off: The lighting group does not light up under any circumstances.



~M00860000.

Fill light :normal mode (Level 0) 0%



~M00860001.

Fill light :normal mode (Level 1)25%



~M00860002.

Fill Light :Normal Mode (Level 2) 50%



~M00860003.

Fill Light :Normal Mode (Level 3) 75%



~M00860004.

Fill Light :Normal  
Mode (Level 4) 100%





~M01030000.

Fill light : constant light mode (Level 0) 0%



~M01030001.

Fill light : Always on mode (Level 1)  
25%



~M01030002.

Fill light : constant light mode  
(Level 2) 50%



~M01030003.

Fill light : Always on mode (Level 3)  
75%



~M01030004.

Fill light : Always on mode  
(Level 4) 100%



~M01260000.

Fill light : sensor mode (Level 0) 0%



~M01260001.

Fill light : induction mode  
(Level 1) 25%



~M01260002.

Fill light sensor mode  
(Level 2) 50%



~M01260003.

Fill light : induction mode (Level 3) 75%



~M01260004.

Fill Light : Normal Mode (Level 4) 100%

## Chapter VII prompt output

### Reading success prompt tone

After the two-dimensional code scanning engine is successfully read, Prompt sound can be output. Corresponding settings can be made through the following setting codes.



~ MOO EA 0000.

Buzzer : start successful tone one



~ MOO EA 0001.

Buzzer : start successful tone  
2



~MOO EA0002.

Buzzer : start successful tone  
three



~ MOO EA 0003.

Buzzer : Start successful tone  
four



---

~ MOO EA 0004.

Buzzer : Start successful tone five



~MOO EB0000.

Buzzer : Decoding successful tone  
one



~ MOO EB 0001.

Buzzer : Decoding Success Tone 2



~ MOO EB 0002.

Buzzer : Decoding successful tone  
three



~ MOO EB 0003.

Buzzer : Decoding successful  
tone four



~ MOO EB 0004.

Buzzer : Decoding Success Tone Five



~ MOO EC 0000.

Buzzer : configuration success tone one



~MOOEC0001.

Buzzer : Configuration success tone two



~ MOO EC 0002.

Buzzer : Configuration success tone three



~MOOEC0003.

Buzzer : Configuration success tone four



~ MOOEC 0004.

Buzzer : Configuration success tone five





~ MO OFA 0000.

Buzzer : start successfully (Level 0)  
0%



~MOOFA0001.

Buzzer : Started successfully  
(Level 1) 20%



~ MOOFA 0002.

Buzzer : start successfully (Level 2)  
40%



~MOOFA0003.

Buzzer : Successful startup  
(Level 3) 60%



~ MO OFA 0004.

Buzzer : start successfully (Level 4)  
80%



~ MO OFA 0005.

Buzzer : Startup successful (Level  
5) 100%



~MOOFB0000.

Buzzer : Successful decoding (Level 0)  
0%



~ MOOFB 0001.

Buzzer : Successful decoding  
(Level 1) 20%



~MOOFB0002.

Buzzer : Decoding successful (Level 2)  
40%



~MOOFB0003.

Buzzer : Decoding successful (Level 3)  
60%



MOOFB 0004.

Buzzer : Successful decoding (Level 4)  
80%



~ MO OFB 0005.

Buzzer : Successful decoding (Level 5)  
100%



~ MO OFC 0000.

Buzzer : Configuration successful  
(Level 0) 0%



~ MOOFC 0001.

Buzzer : Configuration successful  
(Level 1) 20%



~ MOOFC0002 .

Buzzer : Configuration successful  
(Level 2) 40%



~ MOOFC0003 .

Buzzer : Configuration successful  
(Level 3) 60%



~MOOFC0004.

Buzzer : Configuration successful  
(Level 4) 80%



~ MO OFC 0005.

Buzzer : Configuration successful  
(Level 5) 100%

## chapter eight Output format settings

### Automatically add newline switch



~M00920000.

Automatically add line breaks off



~M00920001.

Automatically add line breaks is enabled

### Automatically add TAB switch



~M00930000.

Automatically add TAB off



~M00930001.

Automatically add TAB on

### Automatically add prefix switch



---

~M00940000.

Auto prefix off



~M00940001.

Automatic prefixing on

Automatically add suffix switch



~M00950000.  
Auto add suffix off



~~M00950001.  
Automatically add suffix on

Command trigger mode response setting



~M00730000.  
No response



~M00730001.  
There is a response

Code system differentiation function settings

~ Moog B 0000.  
Add CODE ID off





~ Moog B 0001.

Add CODE ID is on

Letter case switch



~Moogc0000.  
No conversion



~ Moogc 0001.  
convert to uppercase



~ Moogc 0002.  
Convert to lowercase



~ Moogc 0003.  
Convert between  
uppercase and lowercase



## Chapter nine Barcode settings

### Operations on all 1D barcode symbology types

Read the following setting code, Only perform unified operations on all 1D barcode symbol types, or allow reading of all, or all Reading is prohibited.



~M00010001.  
All 1D codes ( enabled )



~M00010000.  
All 1D codes ( closed )

### Operations on all 2D barcode symbology types

Read the following setting code, Only perform unified operations on all 2D barcode symbol types, or all allow reading, or all reading is prohibited.



~M00020001.  
All QR codes ( open )



~M00020000.  
All QR codes ( closed )

---

1D barcode type

Code39



~M01600001.  
Code39( enabled )



~M01600000.  
Code39( closed )

Code128



~M01500001.  
Code128( enable )



~M01500000.  
Code128( closed )

UPC / EAN / JAN



~M01 BA 0001.  
UPC/EAN/JAN ( on )



~M01 BA 0000.  
UPC/EAN/JAN ( closed )

Code93



~M01C00001.  
Code93 ( on )



~M01C00000.  
Code93( closed )

Interleaved 2 of 5



~M01850001.  
Interleaved 2 of 5 ( on )



~M01850000.  
Interleaved 2 of 5 ( closed )

## Codabar



~M01450001.

Codabar ( open )



~M01450000.

Codabar ( closed )

## Code 11



~M10000001.

Code 11( open )



~M10000000.

Code 11( closed )

## Matrix 2 of 5



~M02000001.

Matrix 2 of 5 ( on )



~M02000000.

Matrix 2 of 5 ( closed )

MSI code



~M11000001.  
MSI code ( on )



~M11000000.  
MSI code ( close )

Industrial 2 of 5



~M01E50001.  
Industrial 2 of 5 ( on )



~M01E50000.  
Industrial 2 of 5 ( close )

GS1 \_ Databar



~M12000001.  
GS1 Databar ( on )



~M12000000.  
GS1 Databar ( closed )

2D barcode type

QR code



~M01B00001.  
QR code open



~M01B00000.  
QR codeClose

Micro QR code



~M13980001.  
Mirco QR code turn on



~M13980000.  
Mirco QR code closure

PDF 417



~M01950001.

PDF417 open



~M01950000.  
PDF417 close

## Data Matrix



~M01710001.  
Data Matrix on



~M01710000.  
Data Matrix closed



appendix

appendix A default settings table

set up	parameter name	default setting	Remark
System settings	reset		
	User default settings	Save user defaults	
	Boot music settings	turn on	
	Scan code to configure function settings	closure	
Communication settings	<b>USB-HID</b> communication	turn on	different firmware The interface is different
	Serial communication	closure	
	Serial port baud rate setting	<b>9600</b>	
External device	aiming light	On ( flashing )	
	indicator light	Started successfully ( on ) Decoding succeeded ( on ) Configuration successful ( open )	
	fill light	Trigger Mode (Level 4) 100% Continuous Mode (Level 4) 100% Sensing Mode (Level 4) 100%	
	buzzer tone	start success tone <b>4</b> Decoding Success	

		Tone 1 configure success tone 2	
	buzzer volume	Successful startup (Level 5) 100% Successful decoding (Level5) 100% Configuration successful (Level5) 100%	
Output Format Settings set up	Automatically add newline switch	Add newline 0X0d0a	
	Automatically add TAB switch	Add TAB to close	
	Automatically add prefix switch	No prefix is used	
	Automatically add suffix switch	no suffix	
	Command trigger mode response setting	There is a response	
	Code system distinction function setting (add Code ID )	closure	
	letter case conversion	No conversion (output original number according to)	
Work mode setting	System working mode setting	induction mode	
	Same code reading delay setting	1500ms	
Barcode Settings	Code32/Code39	turn on	
	Code128/AIM128/EAN128	turn on	

	UPC/EAN/ISBN/ISSN	turn on	
	Code93	turn on	
	Interleaved 2 of 5	closure	
	Codabar	turn on	
	Code 11	closure	
	Matrix 2 of 5	closure	
	MSI code	closure	
	Industrial 2 of 5	closure	
	GS1 Databar	closure	
	UK Plessey	closure	
	QR code	turn on	
	PDF417	turn on	
	Data Matrix	turn on	
	Micro QR code	closure	
	All 1D codes	turn on	
	All QR codes	turn on	

**appendix B CODE ID definition**

barcode type	CODE ID
EAN8	d
UPCE	c
UPC-A	c
EAN13	d
Interleaved 2 of 5	e
Codabar	a
Code39	b
Code93	i
Code128	j
Code 11	h
Matrix 2 of 5	v
MSI code	m
Industrial 2 of 5	e
QR code	Q
Micro QR code	q
PDF 417	r
Data Matrix	w

## appendix C Command description

theme	type	Function	Set command code	Access code
product information	Read product information interest	Read product information A		~ QF 501.
		Read product information B		~ QF 672.
		Read all settings information		~ QFA 50.
System settings	Restore factory settings place	reset	~ MA 5F01B2C.	
	User default settings place	save user default	~ MA 5F0506A.	
		Restore user default	~ MA 5F08F37.	
		delete user default	~ MA 5F0D201.	
	Set code function switch	closure	~M00910000.	~Q0091.
turn on		~M00910001.		

Communication settings	serial port	turn on	~M00510000.	~M0051
		closure	~M0051000 1 .	
	Serial baud rate set up	1200	~M00F50000.	~Q00F5.
		2400	~M00F50001.	
		4800	~M00F50002.	

		9600	~M00F50003.	
		19200	~M00F50004.	
		38400	~M00F50005.	
		57600	~M00F50006.	
		115200	~M00F50007.	
External device	aiming light	closure	~M01050000.	~Q0105.
		On ( flashing )	~M01050001.	
		On ( steady on )	~M01050002.	
	indicator light	Start successfully ( on )	~M010A0001.	~Q010A.
		Started successfully ( off )	~M010A0000.	
		Decoding successful ( on )	~M010B0001.	~Q010B.
		Decoding successful ( off )	~M010B0000.	
		Configuration successful ( open )	~M010C0001.	~Q010C.
		Configuration successful ( off )	~M010C0000.	
		trigger mode ( Level	~M00860000.	

	fill light	0) 0%		~Q0086.
		trigger mode (L evel 1) 25%	~M00860001.	
		trigger mode (L evel 2) 50%	~M00860002.	



	trigger mode ( L evel 3) 75%	~M00860003.	
	trigger mode ( L evel 4) 100%	~M00860004.	
	continuous mode ( Level 0) 0%	~M01030000.	~Q0103.
	continuous mode ( Level 1) 25%	~M01030001.	
	continuous mode ( Level 2) 50%	~M01030002.	
	continuous mode ( Level 3) 75%	~M01030003.	
	continuous mode ( Level 4) 100%	~M01030004.	
	induction mode	~M01260000.	

		( Level 0) 0%		~Q0126.
		Sensing mode ( L evel 1) 25%	~M01260001.	
		Sensing mode ( L evel 2) 50%	~M01260002.	
		Sensing mode ( L evel 3) 75%	~M01260003.	

		<b>Sensing mode (Level 4) 100%</b>	~M01260004.	
buzzer tone		Startup success tone one	~M00 EA 0000.	~Q00 EA .
		Startup success tone two	~M00 EA 0001.	
		Startup success tone three	~M00 EA 0002.	
		<b>Startup success tone four</b>	~M00 EA 0003.	
		Startup Success Tone Five	~M00 EA 0004.	
		<b>Decoding success tone one</b>	~M00 EB 0000.	~Q00 EB .
		Decoding success tone two	~M00 EB 0001.	
		Decoding success tone three	~M00 EB 0002.	
		Decoding successful tone four	~M00 EB 0003.	
		Decoding successful tone five	~M00 EB 0004.	
		Configuration success tone one	~M00 EC 0000.	~Q00 EC .
		<b>Configuration success tone</b>	~M00 EC 0001.	

		two		
		Configuration success tone three	~M00 EC 0002.	
		Configuration success tone four	~M00 EC 0003.	
		Configuration success tone five	~M00 EC 0004.	
	buzzer volume	Startup succeeded ( Level 0) 0%	~M00 FA 0000.	~Q00 FA .
		Started successfully ( Level 1) 20%	~M00 FA 0001.	

		<p>Started successfully ( Level 2) 40%</p>	<p>~M00 FA 0002.</p>	
		<p>Started successfully ( Level 3) 60%</p>	<p>~M00 FA 0003.</p>	
		<p>Started successfully ( Level 4) 80%</p>	<p>~M00 FA 0004.</p>	
		<p><b>Startup succeeded ( Level 5) 100%</b></p>	<p>~M00 FA 0005.</p>	
		<p>Decoding successful ( Level 0) 0%</p>	<p>~M00 FB 0000.</p>	
		<p>Decoding successful ( Level</p>	<p>~M00 FB 0001.</p>	

		el 1) 20%		~ Q00FB .
		Decoding successful ( Level el 2) 40%	~M00 FB 0002.	
		Decoding successful ( Level el 3) 60%	~M00 FB 0003.	
		Decoding successful ( Level el 4) 80%	~M00 FB 0004.	
		Decoding succeeded ( Level I 5) 100%	~M00 FB 0005.	

		<p>The configuration was successful ( Level 0) 0%</p>	<p>~M00 FC 0000.</p>	
		<p>Configuration successful ( Level 1) 20%</p>	<p>~M00 FC 0001.</p>	<p>~Q00 FC .</p>
		<p>Configuration successful ( Level 2) 40%</p>	<p>~M00 FC 0002.</p>	
		<p>Configuration successful ( Level 3) 60%</p>	<p>~M00 FC 0003.</p>	
		<p>Configuration successful ( Level 4) 80%</p>	<p>~M00 FC 0004.</p>	

		<b>Configuration successful ( Level I 5) 100%</b>	~M00 FC 0005.	
Way of working set up	System working model settings	Manual trigger mode-1(Active Lo)	~M00210000.	~Q0021.
		<b>continuous mode</b>	~M00210001.	
		induction mode	~M00210002.	
		command trigger mode	~M00210003.	
		Manual trigger mode-2( Pulse )	~M00210004.	
	Instruction continuation mode	~M00210005.		
		<b>Turn off hibernation</b>	~M00220000.	~Q0022.



command			
continuous mode	Start hibernation		
sleep settings		~M00220001.	
Induction mode	Turn off features	~M00260000.	~Q0026.
	night Fill light function set up	start function ~M00260001.	
Sensing mode spirit sensitivity	Sensitivity level Level 0 ( high )	~M00230000.	~Q0023.
	Sensitivity level Level 1 ( medium )	~M00230001.	
	Sensitivity level Level 2 ( low )	~M00230002.	
horizontal mirror	closure	~M00240000.	~Q0024.
	turn on	~M00240001.	
	closure	~M00250000.	

	vertical mirror	turn on	~M00250001.	~Q0025.
	Same code	<b>no delay</b>	~M00B00000.	~Q00B0.
	reading Delay setting ( Supported mode : connected continued, induction, Instructions are continuous )	time delay unit :100 mSec Max :25 Sec	~M00B000 yy .	
		no delay	~M00B10000.	

	single read long set ( support mode : hand trigger, finger to trigger continued, induction )	<b>time delay</b> <b>unit :100 mSec</b> <b>Max :25 Sec</b> <b>(BT: 5000 ms;</b> <b>BM: 5000 ms)</b>	~M00B100 yy .	
	Reading interval long set ( Support mode : even continued, induction )	no delay <b>time delay</b> <b>unit :100 mSec</b> <b>Max :25 Sec</b> <b>(BT: 1000 ms;</b> <b>BM: 1000 ms)</b>	~M00B20000. ~M00B200 yy .	~Q00B2.
output	Automaticall	Add line break to close	~M00920000.	~Q0092.
	y add and replace	<b>Add newline</b> <b>enabled</b>	~M00920001.	
	row switch	<b>0x0D0A</b>		
	Automaticall	<b>Add to TAB</b> <b>closure</b>	~M00930000.	

format  set up	y added TAB switch	Add to TAB turn on	~M00930001.	~Q0093.
	before automaticall y adding function switch	prefix Do not use	~M00940000.	~Q0094.
		prefix use	~M00940001.	
	After automaticall y adding function switch	suffix Do not use	~M00950000.	~Q0095.
		suffix use	~M00950001.	

	command	No response	~M00730000.	~Q0073.
	trigger	<b>There is a response</b>	~M00730001.	
	mode			
	response settings			
	Code system distinction function	<b>closure</b>	~M009B0000.	~Q009B.
	Can be set (Add Code ID)	turn on	~M009B0001.	
	alphabetic output word character conversion	<b>Do not convert (output raw data )</b>	~M009C0000.	~Q009C.
		Convert to uppercase	~M009C0001.	
		Convert to lowercase	~M009C0002.	
		Case conversion	~M009C0003.	
Barcode	Code 32/ Code 39	closure	~M01600000.	~Q0160.
		<b>turn on</b>	~M01600001.	
	Code 128/ AIM	closure	~M01500000.	~Q0150.
	128/ EAN 128	<b>turn on</b>	~M01500001.	
	UPC / EAN /	closure	~M01 BA 0000.	

design  place	ISB	turn on	~M01 BA 0001.	~Q01 BA .
	N/ ISSN			
	Code 93	closure	~M01C00000.	~Q01C0.
		turn on	~M01C00001.	
	Interleaved 2 of 5	closure	~M01850000.	~Q0185.
		turn on	~M01850001.	

Codabar	closure	~M01450000.	~Q0145.
	turn on	~M01450001.	
Code 11	closure	~M10000000.	~Q1000.
	turn on	~M10000001.	
Matrix 2 of 5	closure	~M02000000.	~Q0200.
	turn on	~M02000001.	
MSI code / MSI Plessey	closure	~M11000000.	~Q1100.
	turn on	~M11000001.	
Industrial 2 of 5/ Standard 2 of 5	closure	~M01E50000.	~Q01E5.
	turn on	~M01E50001.	
GS 1 Databar	closure	~M12000000.	~Q1200.
	turn on	~M12000001.	
UK Plessey	closure	~M13850000.	~Q1385.
	turn on	~M13850001.	
Mirco QR	closure	~M13980000.	~Q1398.
	turn on	~M13980001.	
QR	closure	~M01B00000.	~Q01B0.
	turn on	~M01B00001.	
PDF 417	closure	~M01950000.	~M0195

		turn on	~M01950001.	
Data Matrix		closure	~M01710000.	~M0171
		turn on	~M01710001.	
All 1D codes		closure	~M00010000.	
		turn on	~M00010001.	
All QR codes		closure	~M00020000.	
		turn on	~M00020001.	