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# MH-ET LIVE Scanner v3.0

QR code barcode recognition module
scan code module
serial communication UART interface embedded

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## Chapter 1 Getting Started

#### Introduction

The product adopts a professional image processing chip for barcode recognition, which can maintain high-speed performance of fast and stable reading in a complex environment, and has the characteristics of low power consumption and low heat generation. Quick start, cold start and warm start can keep up the rapid start, no need to wait, it is ready to open.

Supports reading 1D and 2D codes on paper, screen, plastic and other carriers.

#### About this manual

This manual mainly provides various function setting instructions for the product. By scanning the setup function bar code in this manual, you can change function parameters such as communication interface parameters, read operation mode, prompt mode, data processing and output.

## Chapter 2 System Settings

### Restore factory defaults

Note: Please use the "Restore Factory Default" function carefully. After reading this setting code, the current parameter setting will be lost and replaced with the factory default value. The factory default parameters and functions can be found in Appendix A.



~MA5F01B2C. Reset

#### User default setting

In addition to the factory default settings, you can save frequently used settings to the user default settings.

Reading the "Save User Defaults" code will save all parameters of the QR code scanner to the user default settings. If there is user default configuration information on the QR code scanner, the current configuration information will replace the original user default configuration information after this operation. Reading "Restore User Defaults" will cause the engine to switch to the state of the user's default settings.

Note: The previously saved user default settings are not lost when the factory defaults are restored.



~MA5F0506A.

Save user default recovery user default



~MA5F08F37.

#### Use setup code

Reading the "Scan Code Configuration Function Settings: On" barcode allows the QR code scan engine to enable the function of configuring a specific barcode (setting code function). After the function is turned on, parameters can be modified for the QR code scanning engine by reading one or more setting codes. After the setting is completed, you need to read "Save User Default" to save it, then read "Scan Code Configuration Function Setting: Off" to close the setting code and enter the normal scanning mode.

After reading "Scan Code Configuration Function Setting: Off", the QR code scanning engine can only read and process the "Scan Code Configuration Function Setting: On" setting code.



~M00910001.



~M00910000.

Sweep configuration function setting: On scan code configuration function

# Chapter 3 Communication Interface

The Scanner v3.0 QR code scanner provides USB or TTL-232 communication with the host. Through the communication interface, it can receive read data, control the output of the QR code scanner, and change the function of the QR code scanner. Can parameters, etc.

#### Serial communication interface

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

The serial communication interface usually provided by the QR code scanner is based on TTL level signals, which is directly applied to the special model. RS-232 conversion circuit.

The form of TTL3.3V can be connected to most application architectures. For some systems that need to use RS-232 interface mode, level conversion must be performed.  $\cdot$ 

The default serial communication parameters of the QR code scanner are as follows. When they are inconsistent with the host device, they can be modified by reading the setup code.

Parameter	Default
Serial communication type	Standard TTL3.3V
Baud Rate	9600
Parity Type	None
Data Bits	8
Stop Bits	1
Hardware Flow Control	None

### Baud rate

The Baud Rate is in bits per second (bps: bits per second). The optional configuration parameters are listed below.



~M00F50000. 1200



~M00F50001. 2400



~M00F50002. 4800



**~M00F50003**. 9600



~M00F50004. 19200



~M00F50005. 38400



**~M00F50006**. 57600



**~M00F50007**. 115200

#### USB interface

Connect the device interface (MiniUSB interface) of the USB cable to the BT100; connect the host interface (USB interface) of the USB cable to the host. This mode is USB HID KEYBOARD mode.

## Chapter 4 Reading Mode

#### Continuous mode

Continuous mode: automatically starts decoding after power-on. After successful or failed decoding, it will automatically start the next decoding after waiting for a period of time.



#### Induction mode

Sensing mode: When the device detects that a bar code appears in the window range, it triggers a decoding.



101002 10002

### Induction mode night vision function



Induction mode night vision function: on



Induction mode night vision function: off

### Command mode

Command mode: After sending the start decoding command after power-on, the device starts to continue decoding until the stop decoding command is received



- 9 -

Command continuous mode sleep setting - turn on sleep



Command continuous mode sleep setting - turn off sleep



~M00220000.

Horizontal mirroring - on



~M00240001.

Horizontal mirroring - off



~M00240000.

### Vertical mirroring - on



Vertical mirroring - off



mottoco.

### Same code identification delay setting

In the non-manual mode, the "same reading delay" setting device automatically starts the next reading after one reading. If the barcode is exactly the same as the last successfully read barcode, the reading engine will continue. Waiting state, until the same reading delay is over, the decoding can be successfully completed. When the barcode is not repeated, the reading device will always read the code.









Single reading time setting:



Single reading time setting: no delay



Single reading time setting: 5 seconds

### Reading interval setting



~M00B20000.
Reading interval setting: no delay



MOUBZOOOA.
Reading interval setting: 1 second

### Sensing mode sensitivity setting

LevelO is high, level1 is medium, and level2 is low



Sensing mode: Sensitivity level 0



Sensing mode: Sensitivity level 1



Induction mode: sensitivity level 2

# Chapter 5 Instruction Mode

In different application scenarios, there will be different requirements. Scanner v3.0 has specially designed the instruction setting mode, which realizes the function that can be set by means of instructions and can be set by scanning code. The format of the instruction is as follows:

Command type	Command content	Description			
Setting	~Mxxxyyyy.	M: setting ; xxxx: command;			
parameters		yyyy: value			
_	[ACK]	Set successfully			
Set response	[NAK]	Valid command, invalid value			
	[ENQ]	Invalid command			
Query	~Qxxxx.	Q: query; xxxx: command;			
parameter					
	xxxxyyyy[ACK]	Xxxx: command; yyyy: numeric			
Query	[ENQ]	Invalid command Invalid			
response		command			
Trigger scan	~T.	T: Trigger scan code			
code					
	T[ACK]	Trigger success			
Trigger	T[NAK]	Trigger failure			
response					

## Chapter 6 Lighting

### Lighting

The Scanner v3.0 is equipped with four positive white LEDs to provide an auxiliary illumination source. Even in a completely dark environment,

The barcode is quickly identified by the auxiliary illumination of the product. The lighting function can be switched on or off, and the brightness level can be adjusted by setting.

Normal mode: The lighting group lights up during shooting and goes out at other times.

Sensing mode: The lighting group lights up after the QR code scanner is turned on, and goes out at other times. Constant light mode: The lighting group continues to emit light after the QR code scanner is turned on.

Off: The light group does not illuminate under any circumstances.



~M00860000.

~M00860001.

Fill light: normal mode (Level 0) 0% Fill light: normal mode (Level 1) 25%



~M00860002.

~M00860003.

Fill light: normal mode (Level 2) 50% Fill light: normal mode (Level 3) 75%



~M00860004.



~M01030000.

Fill light: normal mode (Level 4) 100% Fill light: constant light mode (Level0)0%



~M01030001.



~M01030002.

Fill light: Constant light mode (Level 1)25% Fill light: Constant light mode (Level 2)50%





~M01030004.

Fill light: Constant light mode (Level 3) 75% Fill light: Constant light mode (Level 4) 100%



~M00860004



~M01030000.

Fill light: sensing mode (Level 0) 0%

Fill light: sensing mode (Level 1) 25%



~M01260002



~M01260003

Fill light sensing mode (Level 2) 50% Fill light: Induction mode (Level 3) 75%



~M01260004.

Fill light: normal mode (Level 4) 100%

# Chapter 7 Prompt Output

### Read success tone

The Scanner v3.0 QR code scanning engine can output a beep after successful reading.

The corresponding settings can be made with the following setting codes.



~M00EA0000.



~M00EA0001. Buzzer: Start successful tone one Buzzer: Start successful tone two



~M00EA0002.



Buzzer: Start successful tone three Buzzer: Start successful tone four



~M00EA0004.

Buzzer: Start successful tone five



~M00EB0000.

Buzzer: Decoded successfully tone 1 Buzzer: Decoded successful tone 2



~M00EB0001.



~M00EB0002.

Buzzer: Decoded successfully tone 3 Buzzer: Decoded successful tone 4





~M00EB0004.

Buzzer: Decoded successful tone 5



~M00EC0000.



~M00EC0001.

Buzzer: Configure successful tone 1 Buzzer: Configure successful tone 2



~M00EC0002.

Buzzer: Configure successful tone 3 Buzzer: Configure successful tone 4



~M00EC0003.



~M00EC0004.

Buzzer: Configure successful tone 5



~M00FA0000.

Buzzer: Start successful (Level 0) 0%



~M00FA0001.

Buzzer: Start successful (Level 1) 20%



~M00FA0002.

Buzzer: Start successful (Level 2) 40%



~M00FA0003.

Buzzer: Start successful (Level 3) 60%



~M00FA0004.



~M00FA0005.

Buzzer: Start successful (Level 4) 80% Buzzer: Start successful (Level 5) 100%



~M00FB0000.

Buzzer: Decoding Successful (Level 0) 0%



~M00FB0001.

Buzzer: Decoding Successful (Level 1) 20%



~M00FB0002.

Buzzer: Decoding Successful (Level 2) 40%



~M00FB0003.

Buzzer: Decoding Successful (Level 3) 60%



~M00FB0004.

Buzzer: Decoding Successful (Level 4) 80%



~M00FB0005.

Buzzer: Decoding Successful (Level 5) 100%



~M00FC0000.



~M00FC0001.

Buzzer: Configuration successful (Level 0) 0% Buzzer: Configuration successful (Level 1) 20%



~M00FC0002.



~M00FC0003.

Buzzer: Configuration successful (Level 2) 40% Buzzer: Configuration successful (Level 3) 60%



~M00FC0004.



~M00FC0005.

Buzzer: Configuration successful (Level 4) 80% Buzzer: Configuration successful (Level 5) 100%

## Chapter 8 Output Format Settings

### Automatically add a line feed switch



~M00920000.

Automatically add line breaks



~M00920001.

Automatically add line breaks

## Automatically add TAB switch



~IVI00930000.

Automatically add TAB off



~M00930001.

Automatically add TAB to open

### Automatically add prefix switch



~M00940000.

Automatically add prefix off



~M00940001.

Automatically add prefix to open

### Automatically add suffix switch





Automatically add suffixes off Automatically add suffixes to turn on

### Command trigger mode answer setting



~M00730000.

No answer

~M00730001.

Answer

### Code system distinguishing function setting



~M009B0000.

~M009B0001.

Add CODE ID off

Add CODE ID to open

#### Letter case switch







~M009C0001

Not converted

Convert to uppercase



~M009C0002.



~M009C0003.

Convert to lowercase

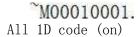
Uppercase lowercase conversion

# Chapter 9 Barcode Settings

### Operation on all 1D barcode symbol types

Read the following setup code to perform unified operations on all 1D barcode symbol types, or all read, or all prohibited.







~M00010000. All 1D code (off)

Read the following setup code to perform a unified operation on all 2D barcode symbol types, or all read, or all read prohibited.

### Operation on all 2D barcode symbol types



~M00020001.

M00020001.

All 2D code (on)



~M00020000.

All 2D code (off)

One-dimensional barcode type

### Code39





~M01600000.

### Code39(close)

### Code128



~M01500001.

Code128(open)



~M01500000.

Code128(close)

#### **UPC/EAN/JAN**



~M01BA0001. UPC/EAN/JAN (open)



~M01BA0000 UPC/EAN/JAN (close)

### Code93



~M01C00001.



~M01C00000.

Code93 (open) Code93(close)

### Interleaved 2 of 5



~M01850001.



~M01850000.

Interleaved 2 of 5 (open)

Interleaved 2 of 5 (close)

### Codabar



~M01450001.

Codabar (open)



~M01450000.

Codabar (close)

### Code 11



~M10000001.



~M10000000.

Code 11 (open)

Code 11(close)

### Matrix 2 of 5



~M02000001.



~M02000000.

Matrix 2 of 5 (open)

Matrix 2 of 5 (close)

### **MSI** code





~M11000000.

MSI code (open)

MSI code (close)

### Industrial 2 of 5



~M01E50001.



~M01E50000.

Industrial 2 of 5 (open)

Industrial 2 of 5 (close)

### **GS1 Databar**



GS1 Databar (open)



~M12000000.

GS1 Databar (close)

## 2D barcode type

QR





~M01B00000.

QR (open) QR(close)

## **Appendix**

### Appendix A Default Settings Table

SET	Parameter name	Default setting	Remarks
	reset		
System	User default setting	Save user default	

settings	Boot music settings	Open
	Scan code configuration	Shut down
	function settings	
Communica	Serial communication	Open
tion	Serial port baud rate	9600
settings	setting	
	Aiming light	On (flashing)
		Startup success (on)
	Indicator light	Successful decoding (on)
		Successful configuration (on)
		Trigger mode (Level 4) 100%
	Fill light	Continuous mode (Level 4) 100%
		Sensing mode (Level 4) 100%
External		Start successful tone 4
device	Buzzer tone	Decoding successful tone 1
		Configure successful tone 2
		Startup success (Level5) 100%
	Buzzer volume	Successful decoding (Level5) 100%
		Successful configuration (Level5)
		100%
	Automatically add a line	Add line break 0X0d0a
	feed switch	
	Automatically add TAB	Add TAB off
Output	switch	
format	Automatically add	Do not use a prefix
setting	prefix switch	
	Automatically add	Do not use suffix
	suffix switch	
	Command trigger mode	Have a response
	answer setting	
	Code system	Shut down
	distinguishing function	
	setting (Add Code ID)	
		Do not convert (output raw data)
Working	System working mode	Induction mode
mode	setting	
setting	Same code reading delay	1500ms
	setting	
	Code39	0pen
	Code128	0pen
Barcode	UPC/EAN/JAN	0pen
setting	Code93	0pen
	Interleaved 2 of 5	0pen

Codabar	0pen
Code 11	0pen
Matrix 2 of 5	Close
MSI code	0pen
Industrial 2 of 5	0pen
GS1 Databar	0pen
QR	0pen
All 1D code	0pen
All 2D code	0pen

## 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	Ь
Code93	i
Code128	j
Code 11	H
Matrix 2 of 5	V
MSI code	m
Industrial 2 of 5	e
QR	Q

## Appendix C Instruction Description

	Types	Features	Set command	Query command
			code	code
		Read product		~QF672.
Product	Read product	information B		
information	information	Read all setup		~QFA50.
		codes		
		information		
	Reset	Reset	~MA5F01B2C.	
		Save user	~MA5F0506A.	

tting  t code nction switch  rial port baud te setting	Restore user defaults Delete user default Shut down Open 1200 2400 4800 9600 19200 38400	~MA5F08F37. ~MA5F0D201. ~M00910000. ~M00910001. ~M00F50000. ~M00F50002. ~M00F50003. ~M00F50004.	~Q0091. —~Q00F5.
t code nction switch rial port baud te setting	Delete user default Shut down Open 1200 2400 4800 9600	~M00910000. ~M00910001. ~M00F50000. ~M00F50001. ~M00F50002. ~M00F50003.	
t code nction switch rial port baud te setting	Open 1200 2400 4800 9600 19200	~M00910001. ~M00F50000. ~M00F50001. ~M00F50002. ~M00F50003.	
rial port baud te setting	2400 4800 9600 19200	~M00F50001. ~M00F50002. ~M00F50003.	~Q00F5.
rial port baud te setting	4800 9600 19200	~M00F50002. ~M00F50003.	~Q00F5.
rial port baud te setting	9600 19200	~M00F50003.	~Q00F5.
rial port baud te setting	19200	-	~Q00F5.
rial port baud te setting		~M00F50004.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
te setting	38400		
		~M00F50005.	
	57600	~M00F50006.	
	115200	~M00F50007.	
Aiming light	Shut down	~M01050000.	
	On (flashing)	~M01050001.	~Q0105.
	Open (long light)	~M01050002.	
	Startup success (on)	~M010A0001.	~Q010A.
	Startup success (off)	~M010A0000.	
	Successful decoding (on)	~M010B0001.	~Q010B.
	Successful decoding (off)	~M010B0000.	
	Successful configuration (on)	~M010C0001.	~Q010C.
	Successful configuration (off)	~M010C0000.	
ll light	Trigger mode (Level 0) 0%	~M00860000.	~Q0086.
	Trigger mode (Level 1) 25%	~M00860001.	
d	ing light	on (flashing) Open (long light)  Startup success (on) Startup success (off) Successful decoding (on) Successful decoding (off) Successful configuration (on) Successful configuration (off)  Trigger mode 1 light  On (flashing) Open (long light) Startup success (off) Successful decoding (off)  Trigger mode (Level 0) 0% Trigger mode	On (flashing)

	m · ·	~1100000000	]
	Trigger mode	~M00860002.	
	(Level 2) 50%	×	
	Trigger mode	~M00860003.	
	(Level		
	3) 75%		
	Trigger mode		
	(Level 4) 100%	~M00860004.	
	Continuous mode	~M01030000.	
	(Level		
	0) 0%		
	Continuous mode	~M01030001.	
	(Level		
	1) 25%		~Q0103.
	Continuous mode	~M01030002.	
	(Level		
	2) 50%		
	Continuous mode	~M01030003	
	(Level		
	3) 75%		
	Continuous mode		
	(Level 4) 100%	~M01030004.	
	(Level 4) 100%	M01030004.	
	Induction mode	~M01260000.	
	(Level		
	0) 0%		
	Induction mode	~M01260001.	
	(Level		
	1) 25%		~Q0126.
	Induction mode	~M01260002.	-
	(Level		
	2) 50%		
	Induction mode	~M01260003.	
	(Level	MU1200003.	
	1		
	3) 75%		
	Induction mode	~10100000 <i>;</i>	
	(Level 4) 100%	~M01260004.	
	Start successful	~M00EA0000.	
	tone one		
	Start successful	~M00EA0001.	
	tone two		~Q00EA.
	Start successful	~M00EA0002.	
	tone three		
<u> </u>			

1	a	~100510000	] I
	Start successful	M00EA0003.	
	tone four	Q	
Buzzer tone	Start successful	M00EA0004.	
	tone five		
	Decoding	~M00EB0000.	
	successful tone		
	one		
	Decoding	~M00EB0001.	~Q00EB.
	successful tone		
	two		
	Decoding	~M00EB0002.	
	successful tone		
	three		
	Decoding	~M00EB0003.	
	successful tone		
	four		
	Decoding	~M00EB0004.	
	successful tone		
	five		
	Configure	~M00EC0000.	
	successful tone		
	one		
	Configure	~M00EC0001.	~Q00EC.
	successful tone		
	two		
	Configure	~M00EC0002.	
	successful tone		
	three		
	Configure	~M00EC0003.	1
	successful tone		
	four		
	Configure	~M00EC0004.	
	successful tone		
	five		
	Successful	~M00FA0000.	
	startup (Level		
	0) 0%		
	Successful	~M00FA0001.	
	startup (Level		
	1) 20%		
	Successful	~M00FA0002.	Q00FA.
	startup (Level	MOOI AOOOZ.	4,555.44
	2) 40%		
	4U%		

	Successful startup (Level 3) 60%	~M00FA0003.	
	Successful startup (Level 4) 80%	~M00FA0004.	
	Successful startup (Level 5) 100%	~M00FA0005.	
	Successful decoding (Level 0) 0%	~M00FB0000.	
	Successful decoding (Level 1) 20%	~M00FB0001.	
Buzzer volume	Successful decoding (Level 2) 40%	~M00FB0002.	~Q00FB.
	Successful decoding (Level 3) 60%	~M00FB0003.	
	Successful decoding (Level 4) 80%	~M00FB0004.	
	Successful decoding (Level 5) 100%	~M00FB0005.	
	Successful configuration (Level 0) 0%	~M00FC0000.	
	Successful configuration (Level 1) 20%	~M00FC0001.	~Q00FC.
	Successful configuration (Level 2) 40%	~M00FC0002.	
	Successful configuration (Level 3) 60%	~M00FC0003.	

Configuration (Level 4) 80%   Successful configuration (Level 5) 100%   Manual Trigger   Mode - 1 (Active M00210000. Lo)   Continuous mode M00210001.   Induction mode M00210002.   Tournell of the property	ı	Ī		la.	٦
Clevel   4) 80%   Successful   Configuration   Clevel   5) 100%   Manual Trigger   Mode - 1 (Active M00210000. Lo)   Continuous mode   M00210001.   Induction mode   M00210002.   Instruction   Trigger mode   M00210003.   Trigger mode   M00210004.   M00210004.   M00210005.   Continuous mode   M00210005.   Continuous mode   Command   Turn off sleep   M00220000.   Continuous mode   Start sleep   M00220001.   Continuous mode   Start sleep   M00220001.   Continuous mode   Start sleep   M00220001.   Continuous mode   Close function   M00260000.   Continuous mode   Close function   M00260000.   Continuous mode   Close function   M00260001.   Continuous mode   Close function   M00260001.   Continuous mode   Close function   Close func			Successful	~M00FC0004.	
4) 80% Successful configuration (Level 5) 100%  Manual Trigger Mode - 1 (Active M00210000. Lo) Continuous mode M00210001. Induction mode M00210002. Instruction frigger mode Manual trigger mode Manual trigger mode-2 (Pulse) Instruction continuous mode Start sleep M00220000. Start function M00260000. Start function M00260000. Start function M00260000. Start function M00260000. Start function M00260001.  Sensitivity M00230000.					
Successful configuration (Level 5) 100%  Manual Trigger Mode - 1 (Active M00210000. Lo)  Continuous mode M00210001.  Induction mode M00210002.  Instruction integer M00210003.  trigger mode Manual trigger M00210004.  mode-2 (Pulse)  Instruction integer M00210005.  continuous mode instruction integer M00220000.  Command integer intege			(Level		
configuration (Level 5) 100%  Manual Trigger Mode - 1 (Active M00210000. Lo)  Continuous mode M00210001.  Induction mode M00210002.  Instruction M00210003.  trigger mode Manual trigger M00210004. mode-2 (Pulse) Instruction M00210005.  continuous mode continuous mode sleep setting  Induction mode night fill function setting  Sensitivity Sensitivity Level Level 0 (high) Sensitivity Level Level 1 (middle) Sensitivity Level Level 2 Level 2  Sensitivity M00230002.  Apo220021.  Q0021.  Q0021.  Q0021.  Q0021.  Q0022.  Q0022.  Q0022.  Q0022.			4) 80%		
(Level 5) 100%  Manual Trigger Mode - 1 (Active M00210000. Lo)  Continuous mode M00210001.  Induction mode M00210002.  Instruction M00210003.  trigger mode Manual trigger M00210004.  mode-2 (Pulse)  Instruction M00210005.  continuous mode Sleep setting  Induction mode M00220000.  Start sleep M00220000.  Start sleep M00220001.  Start sleep M00220001.  Q0022.  Start sleep M00220001.  Q0022.  Q0022.  Start function M00260000.  Start function M00260000.  Q0026.  Sensitivity M00230000.  Q0023.  Q0023.			Successful	~M00FC0005.	
System working mode setting    System working mode setting    System working mode setting    System working mode setting    Induction mode    Induction mode    Induction mode    Moo210002.    Instruction    Moo210003.    Tringger mode    Moo210004.    Moo210004.    Moo210005.    Command    Continuous mode    Start sleep    Moo220000.    Start sleep    Moo220001.    Qoo22.    Start sleep    Moo260000.    Qoo26.    Start function    Start function    Start function    Moo260000.    Qoo26.    Qoo23.    Qoo23.    Qoo23.    Qoo23.    Qoo23.    Qoo23.    Qoo23.    Qoo23.    Qoo23.    Qoo24.    Qoo25.    Qoo26.    Qoo26.    Qoo27.    Qoo27.    Qoo28.    Qoo29.    Qoo29.    Qoo29.    Qoo29.    Qoo20.    Q			configuration		
Manual Trigger Mode - 1 (Active M00210000. Lo) Continuous mode M00210001. Induction mode M00210002. Instruction M00210003. Instruction M00210004. Instruction M00210005. Instruction M00210005. Command Turn off sleep M00220000. Continuous mode sleep setting Induction mode Close function M00260000. Start sleep M00220001. Start function M00260000. Start function M00260000. Start function M00260000. Start function M00260001.  Sensitivity M00230000.  Sensitivity M00230000.  Q0023.  Q0023.			(Level		
Mode - 1 (Active M00210000. Lo)  Continuous mode M00210001.  Induction mode M00210002.  Instruction M00210003.  Instruction M00210004.  Manual trigger mode Manual trigger M00210005.  Instruction continuous mode Sleep setting  Induction mode Close function M00220000.  Start sleep M00220001.  Start function M00260000.  Start function M00260001.  Start function M00260001.  Sensitivity M00230000.  Sensitivity M00230000.  Sensitivity M00230001.  Q0023.			5) 100%		
System working mode setting  System working mode setting  Induction mode M00210002.  Instruction M00210003.  trigger mode  Manual trigger M00210004.  mode-2 (Pulse)  Instruction M00210005.  continuous mode sleep setting  Induction mode continuous mode sleep setting  Induction mode night fill function setting  Sensitivity M00230000.  Sensitivity M00230000.  Sensitivity M00230000.  Sensitivity M00230000.  Q0023.  Q0023.			Manual Trigger		
System working mode setting  Tinduction mode M00210002.  Instruction M00210003.  trigger mode Manual trigger M00210004.  mode-2 (Pulse)  Instruction M00210005.  continuous mode Start sleep M00220000.  Continuous mode sleep setting  Induction mode night fill function setting  Sensitivity M00230000.  Sensitivity M00230000.  Sensitivity M00230000.  Sensitivity M00230000.  Q0023.  Q0023.			Mode - 1 (Active	~M00210000.	
System working mode setting  Induction mode M00210002.  Instruction M00210003.  trigger mode Manual trigger M00210004.  mode-2 (Pulse)  Instruction M00210005.  continuous mode Sleep setting  Induction mode Start sleep M00220000.  Start sleep M00220001.  Start function M00260000.  Start function M00260000.  Start function M00260000.  Start function M00260001.  Start function M00230000.  Q0026.  Q0026.  Q0027.			Lo)		
System working mode setting  Instruction trigger mode  Manual trigger M00210004.  Move and trigger M00210005.  Continuous mode  Command Turn off sleep M00220000.  Continuous mode sleep setting  Induction mode night fill function setting  Sensitivity  Sensing mode Sensitivity  Sensing mode Sensitivity  Sensitivity  Induction Move and the following sensitivity  Sensitivity  Sensitivity  Move and trigger M00210004.  Move and			Continuous mode	~M00210001.	-
mode setting  Instruction trigger mode  Manual trigger M00210004. mode-2 (Pulse)  Instruction continuous mode Command Continuous mode sleep setting  Induction mode night fill function setting  Sensitivity Level Level 0 (high)  Sensitivity Level Level 1 (middle) Sensitivity N00230002.  M00230002.  M00230002.  Q0022.  Q0022.  Q0026.		System working	Induction mode	~M00210002.	~00021
trigger mode Manual trigger mode-2 (Pulse) Instruction continuous mode Command Continuous mode sleep setting Induction mode night fill function setting  Sensitivity Instruction Command Continuous mode Start sleep M00220000.  Close function M00260000.  Command Close function M00260000.  Command Turn off sleep M00220001.  Command Close function M00260000.  Command Command Close function M00260000.  Command Command Close function M00260000.  Command Close function M0026		1 -	Instruction	~M00210003.	40021.
mode-2 (Pulse) Instruction		mode Berring	trigger mode		
mode-2 (Pulse) Instruction				~M00210004.	
Instruction continuous mode  Command Turn off sleep M00220000.  continuous mode sleep setting  Induction mode night fill function setting  Sensitivity Sensitivity M00230000.  Sensitivity M00230002.  Sensitivity M00230002.  Sensitivity M00230002.  Sensitivity M00230002.					
continuous mode  Command Continuous mode sleep setting  Induction mode night fill function setting  Sensitivity Sensing mode sensitivity M00230002.				~M00210005.	†
Command continuous mode sleep setting  Induction mode night fill function setting  Sensitivity level Level 0 (high)  Sensitivity Sensitivity level Level 1 (middle)  Sensitivity Noo230002.  Q0022.  Q0022.  Q0022.  Q0022.  Q0022.  Q0022.  Q0022.  Q0026.  Q0026.  Q0026.					
continuous mode sleep setting  Induction mode night fill function setting  Sensitivity   M00230000.   Q0022.    Sensing mode   Sensitivity   M00230000.   Q0026.    Sensitivity   M00230000.   Q0023.    Sensitivity   M00230001.   Q0023.    Sensitivity   M00230001.   Q0023.    Sensitivity   M00230002.   Q0023.    Sensitivity   M00230002.   Q0023.		Command		~M00220000	
Induction mode night fill Start function M00260000.  Start function M00260001.  Sensitivity M00230000.  Ievel Level 0 (high)  Sensitivity M00230001.  Sensitivity M00230001.  Q0023.  Q0023.					~ ~00022
Induction mode night fill Start function M00260000.  Start function M00260001.  Start function M00260001.  Sensitivity M00230000.  Ievel Level 0 (high)  Sensitivity M00230001.  Sensitivity M00230001.  Q0023.  Q0023.  Q0023.		sleen setting	Start sleep	M00220001.	<b>Q</b> 0022.
night fill function setting  Sensitivity level Level 0 (high)  Sensitivity Sensitivity Sensitivity Sensitivity Sensitivity Induction  M00260001.  PQ0026.  PQ0026.  PQ0026.  PQ0023.			Close function	~M00260000	
function setting  Sensitivity M00230000.  level Level 0 (high)  Sensitivity M00230001.  Sensitivity M00230001.  Q0023.  sensitivity M00230002.  level Level 1 (middle)  Sensitivity M00230002.  level Level 2					_ ~Ω0026
Sensitivity M00230000.  level Level 0 (high)  Sensing mode Sensitivity M00230001. Q0023.  sensitivity level Level 1 (middle)  Sensitivity M00230002. level Level 2		_	Start function	M00260001.	<b>Q</b> 0020.
Sensitivity M00230000.  level Level 0 (high)  Sensing mode Sensitivity M00230001.  sensitivity level Level 1 (middle)  Sensitivity M00230002. level Level 2					
level Level 0 (high)  Sensing mode Sensitivity M00230001. ~Q0023.  level Level 1 (middle)  Sensitivity M00230002.  level Level 2		Betting	Songitivity	~M00330000	
Sensing mode Sensitivity ~M00230001. ~Q0023.  sensitivity level Level 1 (middle) Sensitivity ~M00230002. level Level 2				M0023000.	
Sensing mode sensitivity N00230001. Q0023.  Sensitivity N00230001. Q0023.  level Level 1 (middle)  Sensitivity N00230002. level Level 2					
sensitivity level Level 1 (middle) Sensitivity M00230002. level Level 2		Songing made		~M0000001	~00022
(middle) Sensitivity ~M00230002. level Level 2			I -	MUU∠3UUU1.	₩UUZ3.
Sensitivity ~M00230002. level Level 2		Sensitivity			
level Level 2				~1100000000	_
			I -	M00230002.	
Wallandaria a	Worlding		(low)		
Working Horizontal close ~M00240000.			close	M00240000.	
\[\times_	mode	mirroring	open	~M00240001.	~Q0024.
Setting	setting		opon.		
Vertical close ~M00250000.			close	^M00250000.	~00025
open ~M00250001. Q0025.		mirroring	open	~M00250001.	~Q0025.
Same code No delay ~M00B00000.					

	reading delay setting (support mode: continuous, sensing,	delay unit:100mSec Max:25Sec	~M00B000yy.	~Q00B0.
	command continuous)			
		No delay	~M00B10000.	
	time setting (support mode: manual trigger, command trigger, continuous, induction)	delay unit:100mSec Max:25Sec (BT: 5000 ms; BM: 5000 ms)	~M00B100yy.	~Q00B1.
	Reading	No delay	~M00B20000.	
	interval duration setting (support mode: continuous, induction)	delay unit:100mSec Max:25Sec	~M00B200yy.	~Q00B2.
		(BT: 1000 ms; BM: 1000 ms)		
	Automatically add a line feed switch	Add line break close Add line break open 0x0D0A	~M00920000. ~M00920001.	~Q0092.
	Automatically	Add TAB close	~M00930000.	
	add TAB switch	Add TAB open	~M00930001.	~Q0093.
	Automatic prefix function switch	Prefix not used Prefix used	~M00940000. ~M00940001.	~Q0094.
	Automatically	Suffix not used	~M00950000.	
	add suffix function switch	Suffix used	~M00950001.	~Q0095.
Output	Command trigger	No response	~M00730000.	
format setting	mode answer setting	Have a response	~M00730001.	~Q0073.
	Code system	close	~M009B0000.	

	function setting (add Code ID)	open	~M009B0001.	~Q009B.
		Do not convert (output raw data)	~M009C0000.	
	Letter output character	Convert to uppercase	~M009C0001.	~Q009C.
	conversion	Convert to lowercase	~M009C0002.	
		Uppercase lowercase conversion	~M009C0003.	
		close	~M01600000.	
	Code39	open	~M01600001.	~Q0160.
		close	~M01500000.	
Barcode setting	Code128	open	~M01500001.	~Q0150.
		close	~M01BA0000.	
	UPC/EAN/JAN	open	~M01BA0001.	~Q01BA.
	Code93	close	~M01C00000.	
		open	~M01C00001.	~Q01C0.
	Interleaved 2 of	close	~M01850000.	
		open	~M01850001.	~Q0185.
	Codabar	close	~M01450000.	~Q0145.
		open	~M01450001.	
	Code 11	close	~M10000000.	~Q1000.
			~M10000001.	
		close	~M02000000.	
	Matrix 2 of 5	open	~M02000001.	~Q0200.
	MSI code	close	~M11000000.	
		open	~M11000001.	~Q1100.
	Industrial 2 of	close	~M01E50000.	
		open	~M01E50001.	~Q01E5.
		close	~M12000000.	
	GS1 Databar	open	~M12000001.	~Q1200.

		close	~M13000000.	
	ISBN	open	~M13000001.	~Q1300.
	ISSN	close	~M13260000.	
		open	~M13260001.	~Q1300.
		close	~M13530000.	~Q1300.
	CODE 32	open	~M13530001.	
	QR	close	~M01B00000.	~Q01B0.
		open	~M01B00001.	
	All 1D code	close	~M00010000.	
		open	~M00010001.	
	All 2D code	close	~M00020000.	
		open	~M00020001.	