

infoscan FV6X

Operating Manual

NANJING BILIN INTELLIGENT IDENTIFICATION TECHNOLOGY CO., LTD.

Ver:20230217



Catalogue

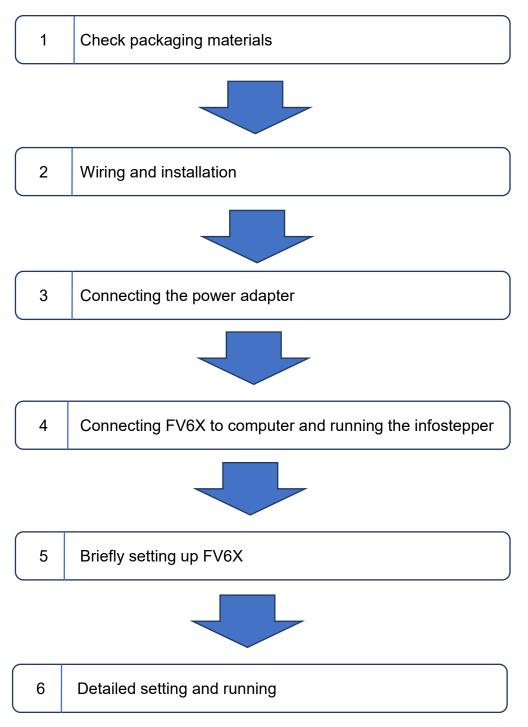
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Setup Process





1 Unwrapping the Package

1-1 Scanner and its belonging

Model	Name	Package content	Quantity	Picture
		Scanner	1	
		Quick Use Guide	1	Minister Statistics Menter Market Market
FV6X	Industrial scanner	Installation plate	1	
		Insulating gasket	1	000
		Screws	1	



1-2 Cables and Power Adapter

(Please refer to the customer's actual order for product accessories)

Name	Package content	Model	Quantity	Picture
Cable	Serial communication cable	H12S-0.85M-USBD9P F14-V1	1	
	Ethernet communication cable	H8S-2M-RJ-V1	1	
Power	Power adapter	WT48-2402000-T	1	



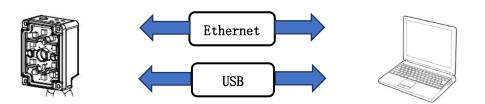
1-3 Scanner Photographs:

1	Camera lens
2	Laser aimer
3	Reading failure indicator (red)
4	Reading success indicator (bule)
5	Non polarization
6	Polarization
7	12 PIN Aviation jack (Serial communication , power supply, I/O)
8	8 PIN Aviation jack (Ethernet)
9	Trigger button
10	CIR2 (Custom)
11	G/F (Reading success indication blue/Reading failure indication red)
12	CIR1 (Custom)
13	PWR (Power indication)
14	M3 mounting hole

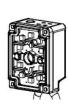


1-4 Scanner Configuration:

Setting up configurations:



Data communication`:



RS232	
Ethernet	
USB	
I/0	





2 Connecting Diagram

2-1 Cable connection Diagram

1. Connect the aviation plug (male) of the cable to the aviation plug (female) of the code reader. Fv6X provides two interface terminals, 12 cores and 8 cores. Be sure to connect accurately $_{\circ}$



2. Rotate the aviation plug (male) screw clockwise to fix it $_{\circ}$

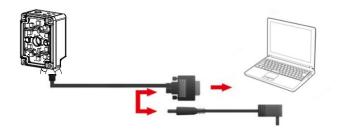


 After the aviation cable plug (male) is firmly connected with FV6X, then the serial communication cable DB9 (female) is connected to the PC serial port, and the Ethernet communication cable RJ45 is connected to the PC Ethernet port (see computer wiring for details).



2-2 Connecting to Computer

Connecting computer via serial port (DB9):

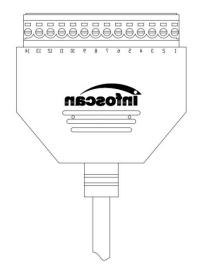


Connecting computer via Ethernet (RJ45):



2-3 I/O connection diagram

The I / O terminal is located on the serial communication cable. If the equipment is connected to external signals or to drive external equipment, it is necessary to use this terminal to connect with external equipment. The drawing of the terminal is shown as below, and the serial number and definition of the terminal are shown in the table.





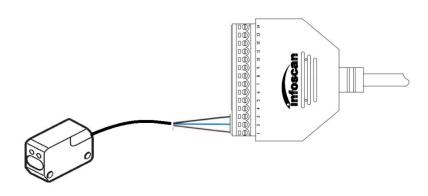
Serial number	Terminal name	Describe	Remarks
	0.01	D	Power output: it can supply power to external
1	24V	Power input / output	equipment (note ①) power input: it can be connected to 20-30v for power supply
2	GND	GND	GND
3	IN1	Input signal 1	Logic level (The default low level takes effect)
4	IN2	Input signal 2	Logic level (The default low level takes effect)
5	GND	GND	GND
6	COM-IN	Voltage output (+)	It forms voltage feedback with out1-out2, 5V \ 24V \ external voltage (no more than 36VDC)
7	OUT1	Transistor output 1	Optional internal pull-up and effective level (note ②)
8	OUT2	Transistor output 2	Optional internal pull-up and effective level (note ②)
9	NC		
10	NC		
11	NC		
12	GND	GND	GND
13	GND	GND	GND
14	24V	Power input / output	Power output: it can supply power to external equipment (note ①) power input: it can be connected to 20-30v for power supply

Note① : It depends on the voltage of the power supply connected to the serial port cable. **Note**② : The effective level value can be set, and the default is 24VDC.



2-4 Input Wiring Diagram

1.NPN photoelectric sensor wiring;



The equipment defaults to the initial logic. The photoelectric sensor shall be NPN type, and the photoelectric sensor shall be connected to signal terminals 1, 2 and 3. The corresponding line sequence is shown in the table:

Photoelectric sensor	Terminal
+(L+)	1 (DC24V)
-(M)	2 (GND)
¬Q	3 (IN1)

Note: The high level voltage of input terminal is ranged from 5v to 24v.

2.Switch connection;

The switch connection defaults to the initial logic. Connecting the switch to signal terminals 2 and 3, and when the switch is pressed, the trigger takes effect. The line sequence is shown in the table below:

Push button switch	Terminal
SW1	2 (GND)
SW2	3 (IN1)

3.Relay trigger wiring;

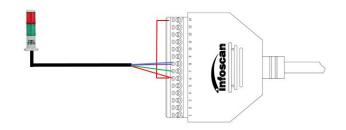
The equipment defaults to the initial logic and the relay is connected to signal terminals 2 and 3. When the rated voltage is applied, the trigger takes effect. The corresponding line sequence is shown in the table below:

Relay	Terminal
Open node 1	2 (GND)
Open node 2	3 (IN1)



2-5 Output Wiring Diagram

1.Alarm lamp wiring;



The device defaults to the initial logic and connecting pin 14 (24V) of the 14pin terminal to the com-in terminal. Meanwhile, the positive pole of the load (taking the NPN alarm lamp as an example) is connected to the com-in terminal and the negative pole is connected to the out1 or out2 in output terminal. When reading is successful, the green light is on, and when reading fails, the red light is on and the alarm sounds. The corresponding table of line sequence is as follows:

Alarm lamp	Terminal
+ (Power input line)	6 (COM-IN)
- (Green light)	7 (OUT1)
- (Red light/Buzzer)	8 (OUT2)

Note: The standard working current of output load is 350mA, and the maximum working current is 400mA.

2.External load relay feedback wiring;

The device defaults to the initial logic and connecting the pin 14 (24V) of the 14pin terminal to the com-in terminal. At the same time, the relay coil end 1 is connected to the com-in terminal and the coil end 2 is connected to the out 2 of the terminal. When reading fails, the relay is actuated.

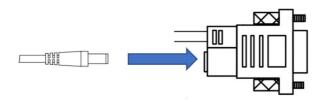
Relay	Terminal
Coil end 1	6 (COM-IN)
Coil end 2	8 (OUT2)



2-6 Power Input Diagram

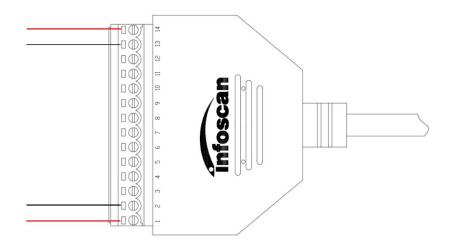
1.Adapter power supply wiring;

The power supply interface is located on the serial communication cable DB9 (female), connecting the adapter output end to the power supply interface of cable DB9.



2.Terminal power supply wiring;

Power supply can be wired in via serial port communication cable 14pin terminal strip. In the terminal, No. 1 and 2 or No. 14 and 13 can be used as power supply interface. See 2-3 IO terminal diagram for pin No. and definition.





3 Installation and Adjustment

3-1 Before Installation

Before installation, please pay attention to the following items and check the installation conditions:

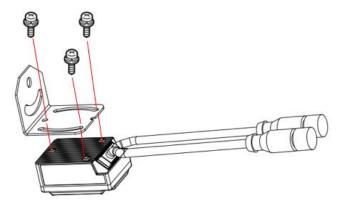
1. No influence of ambient light;

Please avoid sunlight, other lighting, photoelectric sensors and other ambient light from entering the FV6X light receiving window, otherwise it may cause reading instability or reading error.

2. Check whether the light source of the code reader is blocked;

If the light source is blocked, the barcode may not be detected. If there are other devices emitting strong light (direct light and reflected light) on site, please set up a shading plate to avoid that such strong light may damage the code reader or cause code reading failure.

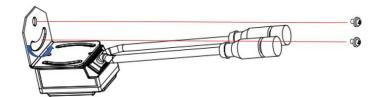
3-2 Installation Diagram



Use the mounting bracket to obtain the most appropriate reading position. The figure shows the most common installation configuration. The installation position of L-type metal fixing plate can be adjusted according to the actual needs.

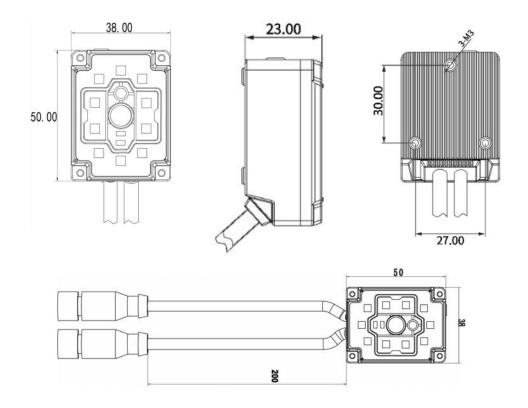


3-3 Angle Adjustment



As shown in the figure, adjusting the angle of the equipment to the appropriate angle position, and fixing the L-shape firmly with screws.

3-4 Product Dimensions



Unit: mm



3-5 Reading Performance Chart

FV6X

unit: mm

	FV	61	FV6	51L	1L F	
Bar code specification	Nearest reading distance	Maximum reading distance	Nearest reading distance	Maximum reading distance	Nearest reading distance	Maximum reading distance
3.34mil Code 128 10bit	45	122	80	155	38	130
5mil Code 128 10bit	40	170	75	180	35	190
6.67mil Code 128 10bit	28	220	60	200	35	250
10mil Code 128 10bit	28	260	45	235	35	330
15mil Code 128 10bit	35	339	50	270	60	400
20mil Code 128 10bit	45	430	60	310	80	500
5mil DataMatrix 10bit	57	85	88	120	35	70
6.67mil DataMatrix 10bit	40	115	80	150	35	95
10mil DataMatrix 10bit	32	188	60	175	35	170
15mil DataMatrix 15bit	30	230	55	200	30	270

Installation distance	FV	FV61 FV61L		/61L	FV63	
	X-axis	Y-axis	X-axis	Y-axis	X-axis	Y-axis
35	25	19	/	/	26	30
45	33	24	25	28	30	23
50	33	27	27	21	35	27
100	67	53	52	41	70	55
150	103	80	76	61	105	82
200	136	108	104	81	140	110



4 Connecting FV6X to infostepper

4-1 Introduction to infostepper

Image: Single Singl	
Open Save Multi-Barcode Edit (//) programming Transmit Image Decoding Transformation Assistant Firmware Update Restore Default Layout Device Synchronized Help Connect Disconnect Image Image <th></th>	
Connect Disconnect 4 2 Connect Disconnect 4 Connect Disconnect 4 Connect Disconnect	Options
2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
2 2	sties
Clawr Bankl Sttling node taftal Cammad Specify Character Type (but Add Specified Char Watter Void Character Type (but Add Specified Char Watter Specified Char Watter Specified Char Watter Specified Character Type (but Add Specified Character Type (but Add Specified Character Type (but Watter Specified Char	Result
Clawr Banki Sttling node defaul Cammad Specify Character Type (but Add Specified Char Watter Void State Watter Specified Char Watter Specified Char	
Clawr Bandl String node taful Cammad Specify Character Type (but Add Specified Char Vac20/u01260Fu003 Her Format input (02470054844003	
Clawr Bankl Sttling node taftal Cammad Specify Character Type (but Add Specified Char Watter Void Character Type (but Add Specified Char Watter Specified Char Watter Specified Char Watter Specified Character Type (but Add Specified Character Type (but Add Specified Character Type (but Watter Specified Char	
Setting onder defaul Commund Specify Character Type Out Muld Specified Char LuceDrugsMudd Her Eornet inget 02470053424003	Automatic Save
Came mel Specify Character Type [0:0] Add Specified Char VacCO/unCISNFU00 Her Format input (02470054844003	
Specify Character Type Out Andd Specified Char VacCo/unDESMF4003 Mex Format input Oct70054844003	
Add Specified Char Vaccovacion Mer. Format. input (024700543844003	FF 🔽
ListOofucDGSBRLu03 Her Earnat input 02470B53424003	
Her format input (024700653874803	
02410053484003	×
Send Command	
Ting-interval Wait as	1000 🚔
ordback Infernation	ngle 🔫
	nuous Trigger
Trics	er Interval
Trigger Off	500 📩 n.s
Encoding: Chinese Sinplified (GE2012). Display as Mer Clear Text	

Serial number	Instruction
1	Common Toolbar
2	Connection mode and information display
3	Online feedback information display
4	Once online, set the class



4-2 Connecting FV6X to infostepper

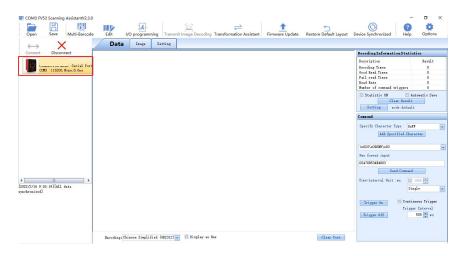
4-2-1 RS-232 Connection

After the device is directly connected to the computer serial port, check "Device Manager→""Port", confirm the port number and click "Connect" .When successfully connecting to the software, then the "Connect to device" window will pop up, selecting "Serial Port Settings", then click "Port Number" Select the corresponding COM number below. If the COM number is not displayed, you can click the "Refresh" button to search; the baud rate, data bit, stop bit, etc. are consistent with the device; as shown in the figure:

Ethernet Serial Po	Settings ortSettings	
Port Number	соиз	🖌 Refresh
Baud Rate	115200	•
Data Bits	8	
Stop Bits	1	
Parity Bits	None	-
Flow Control	None	
Serial port	Debug Co	nnect to device

Click "Connect to device" after the connection is successful, the device will have a buzzer prompt, as shown in the figure:

Note: The image can only be viewed under the Ethernet connection





4-2-2 Ethernet (TCP/IP) Connection

After the device is directly connected to the computer, go to "Control Panel" \rightarrow "Network and Internet" \rightarrow "Network Connections" \rightarrow "Ethernet Properties" \rightarrow "TCPIPv4 Properties" \rightarrow "Use the following IP address" to modify the computer's IP address parameters, so that the IP of the computer and the device (default 192.168.0.100) are in the same network segment.

Click "Connect" to pop up "Connect to device", select "Ethernet Settings", select the computer network card, and click "Search Device", as shown in the figure:

Connect to device Serial Port Settings	ר ר
EthernetSettings	- X.
Device List	
192. 168. 0. 100: 4096	-
Network Card	
Realtek PCIe GbE Family	Controller 🗸
Search Device Co	nnect to device
Modify Network card information	thernet Debug
Local IP:	
	168.0.100:4096

Click "Connect to device" after the connection is successful, the device will have a buzzer prompt, as shown in the figure:

Ethernet FV53 Scanning AssistantV2.3.0	D						- a ×
📄 🖹 🐻	111/2	æ		1	5	0 8	•
Open Save Multi-Barcode	Edit I/O pre	ogramming Transmi	Image Decoding Transformation Assi	tant Firmware Update	Restore Default Layout	Device Synchronized Help	p Options
$\leftrightarrow X$	Data I	mage Setting					
Connect Disconnect						BecodingInformationStat	istics
: Ithernet 192.160.0.100-4006							Result 0 0 0 0 0 Automatic Sava
						Clear Serul Setting mede: defer	
						Connecd	
						Specify Character Type 0 Add Specified Ch	
						/2026/400289//400	
						Hes format input	
						02470053484003	
						Sward Connar	si i
						Time-interval Unit ims	1000
[2022/2/14 16:44:43][All duta symody oni zed]						S	ingle 💌
							timovus Trigger gper Interval 500 💭 as
	Enroding: Chinese	Simplified (GB2312)	🔟 Display as Max		Clear Text		

Note: Display online device model and version information and connection method, device IP address and port number information; the feedback information part displays the date and time of the connection and other related information; after the connection is successful, the interaction is successful, you can click "Image" or "Setting" "Make relevant detailed settings for the barcode reader.



4-2-3 USB Connection

Note: This connection needs a cable that shall be ordered.

After the device is directly connected to the computer, first check the "Device Manager" ---, "Port" (under the premise of installing the USB serial port driver), click "Connect" when connecting to the software, then the Device connection window will pop up, select "Serial Port Settings", select the corresponding "COM Number FV" under "Port Number", if "COM Number FV" is not displayed, you can click the "Refresh" button to search.

Ethernet Settings Serial Port Settings				
Port Number	Come FV	- Refresh		
Baud Rate	115200			
Data Bits	8	-		
Stop Bits	1	-		
Parity Bits	None	•		
Flow Control	None	-		

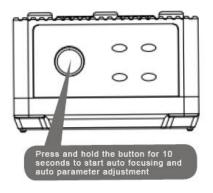
Finally click "Connect to device", The USB connection screen is as shown in the figure:

COM6 FV53 Scanning AssistantV2.3.0		→ O × Sore Default Layout Device Synchronized Help Options
Connect Disconnect	Data Image Setting	BecodingInformationStatistics
Connect Disconnect Strill Jar		Decoding Laternative Decoding Beeching First 0 Good Back First 0 Good Back First 0 Good Back First 0 Book First 0 Back Back 0 </td
	Encoding: Chinese Simplified (GB2312) 💌 🔚 Display as Max	Clear Text



5 How to quickly Setup FV6X without infostepper

FV63 provides quick setting function. Place the barcode sample you need to read within the field of view. Press and hold the button for 10 seconds to perform auto focus first. After the auto focus is successful, it enters the automatic parameter adjustment process .The success or failure of auto focus and auto tuning are indicated by buzzer and indicator light. The success of automatic parameter adjustment is closely related to the quality of the sample barcode label read. When the quality of barcode assignment is good, the success rate of automatic parameter adjustment is high and the process is faster.



Note: In the image window of the setting software infostepper, auto-focus and auto-adjustment can also be completed, see Chapter 6.



6 How to Set up FV6X with infostepper

6-1 Focusing-on adjustment

1. Click on "Image" and enters into ImagingMoniter window;



2.Method 1, click "Image snap";

	-	gTonitor
	🚺 Image snap	Continuous shooting
	Autofocus	Automatic parameter adjustment
Late	est image	+ Get

3.In the main window of "Image", you can view the captured images;



The sample captured image is blurry, which affects decoding, then the focus parameters of the code reader need to be adjusted.

Display area can be adjusted according to need.

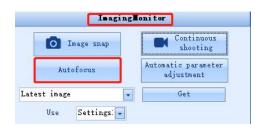
4.Method 2, click "Continuous Shooting" to view the captured images in real time (this method is recommended).

	o Image snap	Continuous shooting
	Autofocus	Automatic parameter adjustment
test	image	Get



6-2 Getting a Clear Image

1. Method 1, select the monitor, click "Auto Focus".



2. Enter the auto focus prompt dialog box.

Autofocus		
212	Autofocus is in progress, please wait	
11	Cancel	

3. After the auto focus is successful, a dialog box will pop up, click OK, the code reader will select the recommended parameters; there may be multiple recommended parameters, you can click the drop-down to select;

Recommended parameters 🚺	2	OK	
-	12		
Note: the larger the va	76	er the	

4. After the auto focus is successful, enter the continuous viewing mode directly. As shown in the example, the barcode area of the image is blurred before auto-focusing. After successful auto-focusing, the barcode area of the image is clear, and the barcode area of the image shows a green frame, indicating that the barcode of the image can be decoded normally;







After focusing

5. Method 2, you can select "Continuous Shooting", in "Image Setting", by adjusting "Focus Distance", you can check the image sharpness in real time and you can adjust the sharpness flexibly.

Focus Distance 😑	·····•	76	OK
------------------	--------	----	----



6-3 Image Parameters Setting

Decoding Window Mode OFF Mouse Selection 0 * left right OK 0 🚔 799 🚔 Cancel bottom top Lighting intensity Exposure Time OK 3 🌩 25 🚔 OK OK Θ Gain (+)1 enhanced contrast off OK *

Select "Continuous shooting", check "Image Setting".

2.Adjust "Lighting intensity", "Exposure Time" and "Gain" to view the image changes in real time, as shown in the example. When the illumination intensity is set to 0, the image is dark, while the illumination intensity is set to 2, the image is obviously brighter and the sample barcode is displayed in a green frame, which can be successfully decoded;



Lighting intensity is set to 0



Lighting intensity is set to 2

3. Adjust the "exposure time" to view the image changes in real time, the image brightness will also change significantly, the image contrast will change significantly. For static barcode reading applications, the "exposure time" has little effect on the reading success rate; if the mobile reading application "exposure time" has a greater impact on the reading success rate, the exposure time parameters can be calculated according to the barcode size and other parameters;

4. Adjust the "Gain", check the image changes in real time, the image brightness will also change significantly and the image contrast will change significantly;

5. For special barcode reading applications, the filtering algorithm needs to be adjusted.

ilter processing 1	off	OK
Process 1 Parameters	off Expansion	OK
ilter processing 2	Corrosion Average	OK
rocess 2 Parameters	Open operation Close operation	OK
Filter processing 3	Median Sharpening	OK
Process 3 Parameters	3	OK
ilter processing 4	off	OK
Process 4 Parameters	3	OK



6-4 RS232 Parameters Setting

Click "Setting", then click "Communication Settings".

Value	State	Communication Settings	Baud Rate
		I/O Settings	115200 • OK
		Edit Settings	Parity
		Debug Setting	None 🔹 OK
		Output Rule Settings	Data bits/Stop bit
			8 Data bits 1 Stop bit 🔹 OK
		Presentation Settings	1P Address
		Decode Settings	192.168.0.100 I OK
		Imaging Settings 1	Subnet Mask
te the row		Imaging Settings 2	255 . 255 . 255 . 0 I OK
ad Configuration onfiguration barcode		Imaging Settings 3	Gateway Address
onrigat action bar code		Imaging Settings 4	0.0.0.0 I OK
Null		A	

2. "Baud Rate", "Parity" and "Data bits/Stop bits" can all be set according to requirements. Take the baud rate setting as an example, set the baud rate to 9600, select "9600" and click the OK button.

15200	-	OK
100		
:00		
200		OK
2400		
1800		
9600		OK
9200		
38400	0	077
57600	L	OK
15200		
55 . 255 . 255 . 0	III	OK

3.Click "Download Configuration", if the setting is successful, the barcode reader buzzer will give feedback, then the setting status in the list will display "Success", indicating that the baud rate setting is successful.

No.	Item	Value	State
1	Baud Rate	9600	success
	Del	ete the row	
		ad Configuration	
	Generate o	configuration barcod	e



4. Likewise, select "Parity" according to your needs, then click the "OK" button. The selected "Parity" setting appears in the setting list, just click "Download Configuration".

9600	- OK
arity	
None	- OK
None	
Odd	
Even	OK
P Address	
192 . 168 . 0 . 100	I OK
ubnet Mask	
255 . 255 . 255 . 0	I OK
ateway Address	
accurate sea	

5. select "Data bits/Stop bits" according to your needs, then click the "OK" button. The selected "Data bits/Stop bits" type setting appears in the setting list, just click "Download Configuration".

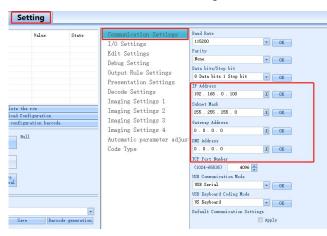
9600	- OK
arity	
None	- OK
ata bits/Stop bit	
8 Data bits 1 Stop bit	- OK
7 Data bits 1 Stop bit	
7 Data bits 2 Stop bit 8 Data bits 1 Stop bit	OK



6-5 Ethernet Parameters Setting

The FV63 barcode reader supports TCP/IP, Profinet and Modbus protocols.

1. Click "Setting", then click "Communication Settings";



2. "IP address", "subnet mask", "gateway address", "DNS address" and "TCP port number" can be set according to requirements. Take the IP address as an example, the IP address can be directly entered by keyboard according to requirements;

Communication Settings	Baud Rate		
I/O Settings	115200	- (OK
Edit Settings	Parity		
Debug Setting	None	• (OK
Output Rule Settings	Data bits/Stop bit		
Presentation Settings	8 Data bits 1 Stop bit	- (OK
	IP Address		
Decode Settings	192 . 168 . 0 . 100	I	OK
Imaging Settings 1	Subnet Mask		
Imaging Settings 2	255 . 255 . 255 . 0	1	OK
Imaging Settings 3	Gateway Address		
Imaging Settings 4	0.0.0.	I	OK
Automatic parameter adju:	5' DNS Address		
Code Type	0.0.0.0	1	OK
	TCP Port Number		

3. After the IP address input is completed, click the "Confirm" button, the set IP address will be displayed in the list, click the "Set Download" button, the buzzer of the code reader will prompt that the setting is successful, and the setting status is displayed successfully, that is, the setting is successful;

No.	Item	Value	State
1	IP Address	192, 168, 0, 90	success

4. "Subnet mask", "Gateway address", "DNS address" and "TCP port number" can be set according to the IP address setting method.



6-6 Setting the Output Signal Level, Duration Pulse

Width

1. The FV6X code reader provides two specifications of output level signal settings. If "24V pull-up" is set to on, the output signal level is $24V_{\circ}$

Item	Value	State	Communication Settings 24V internal pull	P
24V internal pull-up	On	Unsent	I/O Settings On	
			Edit Settings 5V internal pull-up	
			Debug Setting	
			Output Rule Settings On	
			Presentation Settings	
			Decode Settings	
Delete th			Imaging Settings 1 Besult indicators	
Delete th Download Co			Imaging Settings 2	
Generate configuration barcode		Imaging Settings 3 Good Read Pulse with	th	
Den Berice Configuration Load different configuration Sale current device configuration to local Selective configuration Open Sev Configuration nee		e generation Rename	Imaging Settings 4 Automatic parameter adjus Code Type (0-10000) Winisws Trigger Tin (1-20) Befwalt I/O Setting	50 🐳 = e 5 🐳 =

2.IO output logic, OUT1-OUT2 output level signals are all 24V.

3. The default IO output logic, OUT1 is success, OUT2 is failure, the output level signal pulse width of reading success and reading failure are both 50ms, the signal pulse width can be set according to needs, the maximum can be set to 10000ms, After setting, "Download Configuration" must be clicked to download the set configuration to the scanner.

No. Item Cool Read Pulse width Cool Read Pulse width Pailed Read Pulse width Balets the Download Con Generate configuration Lond different Configuration to local Salective configuration Salective configuration Configuration name	fipuration ration burcode 1	Communication Settings I/O Settings Edit Settings Debug Setting Output Rule Settings Presentation Settings Decode Settings 1 Imaging Settings 2 Imaging Settings 3 Imaging Settings 4 Automatic parameter adjust Code Type	False Assa Fulse vitat (0-1000) 000 n s Hiniawa Tricer Tine (1-20) 5 n s Befwult I/O Settings Apply
---	-----------------------------------	---	--



6-7 Setting the Minimum Valid Trigger Time

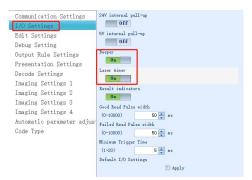
1. The validity of the external trigger signal to the FV6X code reader can be set as required, and the default "minimum effective trigger time" is 5ms;

Communication Settings	24V internal pull-up 0ff
Edit Settings	5V internal pull-up
Debug Setting	110
Output Rule Settings	Beeper
Presentation Settings	On
Decode Settings	Lazer Ainer
Imaging Settings 1	On
Imaging Settings 2	Result indicators
Imaging Settings 3	Good Bead Pulse width
Imaging Settings 4	(0-10000) 50 ans
Automatic parameter adjus	
Code Type	(0-10000) 50 📮 ns
	Minimum Trigger Time
	(1-20) 5 💭 ns
	Default I/O Settings
	Apply

2. Click "Download Configuration" to complete the setting.

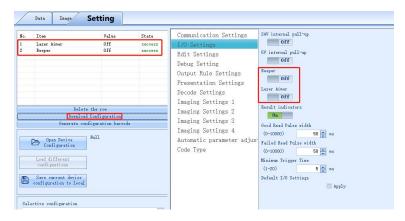
6-8 Setting the Buzzer and Laser Aiming Function

while Good or Failure Reading



1. When the FV6X code reader succeeds or fail in reading the code, the buzzer and the laser aiming functions are open by default;

2. The FV6X code reader has a buzzer for successful or failed code reading, and the laser aiming function can be set to on or off according to requirements. Click "Download Configuration" to complete the setting.





6-9 Trigger Command Generating and Cancelling

1. The FV6X can be controlled by the command from computer or PLC to read the code. The default trigger command (hex) is "544F4E", and the trigger cancellation command (hex) is "544F4646";

ten	Value	State	Communication Settings I/O Settings Debug Setting Output Rule Settings Presentation Settings Decode Settings Imaging Settings 1	Interessing characters 0x 000A 0K End characters 0K 0x 000C 0K Autorrap 0K 0x Status 0x 5445E 0K
Delate the rev Devalued Configuration Generate configuration barcode Devalue to the second Devalue to the second Save coursest devices configuration to local		Imaging Settings 2 Imaging Settings 3 Imaging Settings 4 Automatic parameter adjus Code Type	Dishla trigger consund Ox [54474646 00K 760. Read 0 Off 500. Read Feedback 00x [4552 00K Transmission delay (0-10000) 0 ms Default Rdit Settings Apply	

2. Set the trigger command, for example, set "LON" as the trigger command, select "Transformation Assistant", and input "LON" to convert "LON" to the corresponding hexadecimal;

Transfor	mation Assistar	a.		
Char act	er LON			
4 Nex	4C4F4E			
	Сору На	e Text		
-				
Туре	NUL	eg : OCR Setting: "O	CR"	
data		ASCII	-	
	Create BarCode	_		
	t Send(hex):			

3. Copy the Hex content converted by "LON", paste it into "Enable trigger command", click "OK", you can view it in the setting list, click "Download Configuration" to complete the setting;

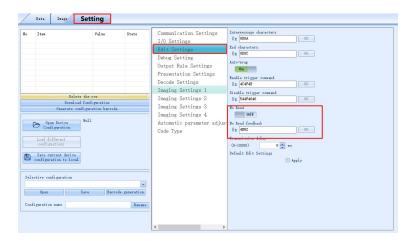
Data Inaga Se	tting	
9. Ten 1 Bakks trigger smark Statistic statistics Statistics and Elements Statistics and Elements Bakkstringer statistics Bakkstringer statistics Generation and Elements Generation and Elements	ntgoording gration bernde 21	One week of the second

4. The custom trigger cancellation command is as the same set process as above.



6-10 Generating the Failure Feedback Command

1. The FV6X code reader can output reading failure characters, the default output character content (hex) is "4E52", and the reading failure feedback is closed by default.



2. The read failure feedback switch is set to on, and the read failure character feedback character (hex) is set to "NoRead". Use the conversion assistant to convert "NoRead" to hexadecimal, paste the hexadecimal content into the read failure character feedback character, click "OK", view the list, click "Download Configuration" to complete the setting.

Contrast Generate cont Configuration Load different configuration Seve correct device Seve correct device Seve correct device Seve configuration Selective configuration	Value BDEAD the ros Configuration Formation barrod Wall	State Success	Communication Settings I/O Settings Bati Setting Dubug Setting Output Rule Settings Presentation Settings Imaging Settings 1 Imaging Settings 2 Imaging Settings 3 Imaging Settings 4 Automatic parameter adjun Code Type	Interserse character: Ox (00A. OF Bad characters Ox (00C OF Autorsp 0x (6474) Bisilat trigger commad Ox (6474) Is land (0x (64
---	--	------------------	--	--



6-11 Rereading the Same Barcode

1. FV6X barcode reader repeat barcode reading function is off by default, and rereading time is 0 S by default.

Value ete the row ead Configuration configuration beroede Wull	State	Communication Settings 1/0 Settings Edit Settings Debug Setting Presentation Settings Decode Settings Imaging Settings 1 Imaging Settings 2 Imaging Settings 3 Imaging Settings 4 Automatic parameter adjus Code Type	Same Barcoda raread disabled Off Reread day (0-10) 0 ÷ 5 Symbologies matching All • 0K Wunber of characters (Format: 8: 15-30) OK Specified characters match Close • 0K Specified characters (Nex) OX Starting position of specified characters (1-255) 1 ÷ Default Output Rule Settings Apply
--	-------	--	---

2. FV6X barcode reader repeat barcode reading is set active, repeat reading delay time is set to "5".

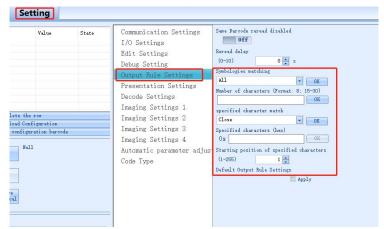
Same Barcode reread dis	Value On 5s	State success success	Communication Settings I/O Settings Edit Settings	Same Barcode reread disabled Da Reread delay (0-10) 5 = z
Delete the r Devalued Confi Generate configurate Configuration Load different configuration Save current device configuration to local settre configuration Open Save diguration name	uration ion barcode	e generation Renare	Debug Setting Output Rale Settings Presentation Settings Imaging Settings 1 Imaging Settings 1 Imaging Settings 3 Imaging Settings 4 Automatic parameter adju Code Type	UP100 b b r z specified characters (Format: 8: 15- rpecified characters (Format: 8: 15- Close Specified characters (haz) 0x (-258) 1 Befuilt Output Rule Settings Apply

3. The repetition reading time is set to 5s, and the repetition barcode reading function is kept for 5s.



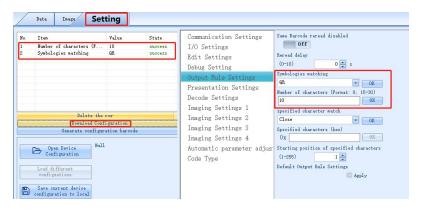
6-12 Setting the Barcode Filter Parameters

1. If the output barcode needs to be displayed, FV6X provides the barcode screening function, which can be set according to the code system, the number of characters, special characters, etc. to achieve screening;



2. For example, if the output code system is QR barcode, the number of characters is 10, and the settings are as follows.

Communication Settings	Same Barcode reread disabled
I/O Settings	Off
Edit Settings	Reread delay
Debug Setting	(0-10) 0 🔹 z
Output Rule Settings	Symbologies matching
resentation Settings	All OK
o construction and a state of the state of t	All 15-30)
Decode Settings	CODABAR OK
Imaging Settings 1	CODE11
Imaging Settings 2	CODE128 CODE39 OK
Imaging Settings 3	CODE93
Imaging Settings 4	DATAMATRIX OK
Automatic parameter adjus	
1	MICROPDF
Code Type	OCR PDF417
	RSS
	IATA25 CODABLOCK
	MSI
	TRIOPTIC
	INDU25 NATRII25
	TELEPEN
	HANXIN
	UPC/EAN



3. Special character matching can be set to filter.



6-13 Auto-induced Reading Mode

1. The inductive reading capability of FV6X code reader, the inductive reading mode is off by default.

No. Lien Value State Value State Communication Settings I/O Settings Edit Settings Output Rule Settings Debug Settings Decode Setings Decode Settings Decode Settings Decode Settings Decode Setti	Data Inage Set	ting		
	Delete the s Download Confi Generate configur Open Derice Configuration Load different configuration enfiguration enfiguration for local Selective configuration Open Sare	ror igration tion burcode Barcode generation	I/O Settings Edit Settings Debug Setting Output Rule Settings Decode Settings Imaging Settings 1 Imaging Settings 2 Imaging Settings 3 Imaging Settings 4 Automatic parameter adjust Code Type	Off Illumination intensity (0-3) 2 Sense Fause Time (0-10) 10 (0-10)

2. If the induction trigger is set to open, you can set the induction trigger lighting intensity, induction pause time, grayscale, frame, moving speed, etc.

Sense Pause Time (0-100) 10 + *100ms Gray scale sensitivity High • OK Frame sensitivity High • OK Target Speed Low • OK High Hedium	Illumination int		
(0-100) 10 ★ *100ms Gray scale sensitivity High ♥ OK Frame sensitivity High ♥ OK Target Speed Low ♥ OK High Medium	(0-3)	2	
Gray scale sensitivity High Frame sensitivity High OK Target Speed Low OK High Medium	Sense Pause Time	2	
High Frame sensitivity High OK Target Speed Low High Medium	(0-100)	10 🚔 *100ms	
Frame sensitivity High VOK Target Speed Low VOK High Medium	Gray scale sensi	itivity	
High • OK Target Speed Low • OK High Medium	Hi gh	• OK	
Low OK High Medium	Frame sensitivit	ty	
Low OK High Medium	Hi gh	▼ OK	
High Medium	Target Speed		
Medium	Low	- OK	
	Low	ply	

3. The induction reading mode of the FV6X code reader is suitable for a specific environment.



6-14 Continuous Trigger Mode

1. In the trigger mode, the continuous trigger mode can be selected.

o. Item	Value State	Communication Settings	Trigger Hode
Delete th Delete th Deneted Conference Conference Conference Selective conference Selective conference Selective conference Selective conference Selective conference Selective conference	Centinout success e row <u>Mirpurstion</u> aration burcode	I/O Settings Edit Settings Debug Setting Output Rule Settings Presentation Settings Imaging Settings 1 Imaging Settings 2 Imaging Settings 3 Imaging Settings 4 Automatic parameter adjus Code Type	Continuess Mode W Contact Mode OE State interval to E Continuous Mode OE (0-00) 0 ************************************

2. The startup mode of continuous trigger mode is divided into boot startup and I/O trigger. The default is I/O trigger.

Communication Settings	Trigger Mode
I/O Settings	Continuous Mode 🔹 OK
Edit Settings	Trigger Type of Continuous Mode
Debug Setting	I/O trigger V
Output Rule Settings	Power On I/O trigger
Presentation Settings	Maximum decoding time
Decode Settings	(0-10000) 5000 A ms
Imaging Settings 1	Time limit to search barcode
Imaging Settings 2	(20-500) 300 🚔 ms
Imaging Settings 3	Dot matrix code optimization
Imaging Settings 4	Off
Automatic parameter adjus	Inverted barcode reading
Code Type	Off
	Small DM reading optimization
	Off

3. Continuous trigger mode shooting interval time.

The default value is 0*100ms, optional 0-50, which can be set according to actual application requirements.

Communication Settings	Trigger Mode
I/O Settings	Continuous Mode
Edit Settings Debug Setting	Trigger Type of Continuous Mode I/O trigger OK
Output Rule Settings Presentation Settings	Snap interval of Continuous Mode (0-50) 0 🛶 *100ms
Decode Settings	Maximum decoding time (0-10000) 5000 🚔 ms
Imaging Settings 1 Imaging Settings 2	Time limit to search barcode (20-500) 300 - ms
Imaging Settings 3 Imaging Settings 4	Dot matrix code optimization
Automatic parameter adjus Code Type	· Inverted barcode reading
	Small IM reading optimization
	Defaced DM reading optimization



6-15 Auto-tuning Function

1. Automatically adjust the maximum exposure time: control the maximum amount of light entering.

The default value is 50, and the value range is 0-100, which can be adjusted according to actual application requirements.

Setting Value State Continuous success te the row ad Configuration onfiguration barcode Null 1	Communication Settings I/O Settings Edit Settings Debug Setting Output Rule Settings Presentation Settings Decode Settings Imaging Settings 1 Imaging Settings 2 Imaging Settings 3 Imaging Settings 4 Automatic parameter adjus Code Type	Maximum exposure of auto parameter adjustment (1-100) 50 - Speed of auto parameter adjustment Auto OK Default Automatic parameter adjustment Settings Apply

2. Automatic parameter adjustment speed: The default is automatic (self-adaptive), Automatic, high-speed, medium-speed, and low-speed can be selected.

Value Continuous



6-16 Selecting the Readable Symbologies

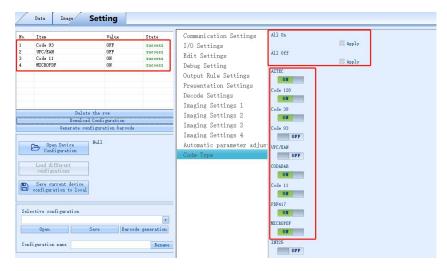
Value	State	Communication Settings	All On
		I/O Settings	Apply Apply
		Edit Settings	All Off
		Debug Setting	Apply
		Output Rule Settings	AZTEC
		Presentation Settings	Code 128
		Decode Settings	Code 128
		Imaging Settings 1	Code 39
ete the row oad Configuration		Imaging Settings 2	ON
configuration barco	le	Imaging Settings 3	Code 93
		Imaging Settings 4	ON
Null		Automatic parameter adjus	UPC/EAN
		Code Type	OR
			CODABAR
			ON
al			Code 11
			OFF
			PDF417
			OW
			MICROPDF
Save Bar	ode generation		
Save Bar	ode generation Rename		INT25

1. The setting window Code type information can be set.

2. Symbology setting.

Full code system on: After checking, click the download, you can open all code system. Full code system off: After checking, click the download, you can turn off all code systems. A code symbology can be turned on or off separately, and each has a corresponding switch button.

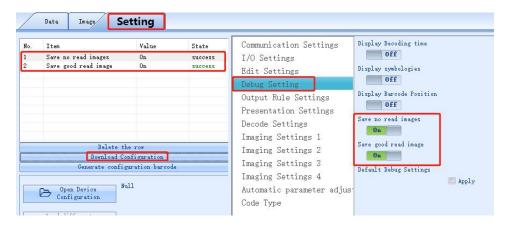
In applications, unnecessary code systems can be turned off, which can improve decoding efficiency.





6-17 How to Get the Pictures of A Barcode

1. Setting window - save decoding success images and save decoding failure sets in "Debug Setting".



2. Image window—obtain, you can view the latest image, successfully decoding image and failed decoding image set.

Last Image: The last image taken by the reader (success/failure).

Decoding success image: last time the barcode reader successfully decoded the barcode. Decoding Failed Image Set: The image set that the barcode reader failed to decode last time.

Data Imag	e Setting			
			ImagingMonitor	
				Continuous shooting atic parameter adjustment Get
			Decoded success image Decode failed image set	🖉 Decoding
			left 0 x right 11 top 0 x bottom 7	Mouse Selection
	L=12367.2	ER82	照明建度 Z 3 章 OK Gain 一 切	xposure Time 40 💌 OK
			enhanced contrast off Focus Distance	• 0K • 84 0K 0 • 0K
			Polarization Binnir	• 0K
Vice incor Actolle				



6-18 How to Generate Setting Codes for the Selected

Parameters for Cloning Other Scanners

1. After selecting some download items with successful settings, click "Generate configuration barcode".

No.	Item	Value	State
1	Save no read images	On	success
2	Save good read image	On	success
3	Display symbologies	On	SUCCESS

2. According to the prompt, it can be pasted into the word file or viewed in the image window (the picture is viewed in the image window), and the current parameter settings can be set by reading the setting code with the code reader.





6-19 How to Save and Operate the Configuration File

1. In the setting window, click to save the current device configuration to the local storage.

Io. Item	3 另存为		>
	← → ~ ↑ 🔜 > 此电脑 > 桌面 🛛 🗸 🗸	ひ 2 搜索"桌面	
	组织 ▼ 新建文件夹		
	> 圖 图片 ^ 名称 ^	修改日期	类型
	> 릘 文档 infostepper release-V2	2021/9/28 13:34	文件夹
	> ↓ 下载 infostepper release-V2.3.1	2021/12/16 16:48	文件夹
	> ♪ 音乐infostepper_release-V230	2021/12/14 9:09	文件夹
Delete	> 🔜 桌面 🚽 常规条码集	2022/2/21 16:21	文件夹
Download Generate con	> 🏪 本地磁盘 (C:)		
Generate con	> 🛖 本地磁盘 (D:)		
Open Device	> 🔜 本地磁盘 (E:)		
Configuration	> 🔿 Network		
Load different			
confi guati ons	~ <		
Save current device	文件名(N): FV53_2-21 16-38.icf		
Save current device configuration to local	保存类型①: Device Configuration (*.icf)		
Selective configuration	∧ 隐藏文件夹	保存(S)	取消

2. Click "Open Device Configuration", and select the corresponding configuration file, then the parameters of the saved configuration file will be imported into the device.

/	Data Image	Setting			
No.	Item	🏙 打开			×
		← → ~ ↑ □ > 単	/电脑 〉 桌面 〉 >	・ ひ 2 投索"桌面	
		组织 ▼ 新建文件夹			H • 🔲 🕜
		💻 此电脑		修改日期	美型
		🧊 3D 对象	infostepper_release-V2	2021/9/28 13:34	文件夹
		- 视频	infostepper_release-V2.3.1	2021/12/16 16:48	文件夹
		■ 图片	infostepper_release-V230	2021/12/14 9:09	文件夹
	Delete		常规条码集	2022/2/21 16:21	文件夹
	Download		FV53_2-21 16-38.icf	2022/2/21 16:39	ICF 文件
	Generate con				
_	- Open Device				
-	Configuration	桌面			
		🏪 本地磁盘 (C:)			
	Load different configuations	🕳 本地磁盘 (D:)			
		🕳 本 <mark>地磁盘 (E:)</mark>			
	Save current device configuration to local	×	<		-
	contiguration to local	文件	宮(N): FV53_2-21 16-38.icf	~ Device Config	uration (*.icf)
Sele	ctive configuration			打开(0)	取消



7 Settings for special applications

7-1 How to read multiple barcode in the same time

1. The multi-barcode mode of FV6X barcode reader needs to be set in Settings-Decoding Settings-Trigger Mode.

Data Insp Setting Ites Value State Trigger Mede Rulti-Sare sorrest Balate the row Balate Balate Description Balate Balate Observation Generation Balate Observation Balate Balate Open Derive Configuration Balate Balate Sare correct derive configuration to lead Barcele pearvaim Open Save Barcele pearvaim Save Barcele pearvaim Save	<pre>stings tings tings signature si</pre>
--	--

2. Open "Multi-Barcode" rules, you can set multiple barcode rules.



Number of barcodes read: The number of read barcodes can be set according to specific application requirements.

When the quantity is set to 0, all barcodes recognized by the reader will be decoded and output.

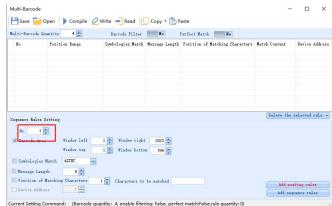
The number is set to non-0, and the set number of decoded information is output. If set to 3, 3 barcode information will be output.

Multi-Barcod	e Edit I/O prog	&- ramming Transmit	Image Decoding	Transformation Assistant	Firmware Update	S Restore Default L
Multi-Barcod	e Y	Z)				- 🗆 X
💾 Save 「	Open 🚺 Compile 💋	Write 🔿 Read [Copy 🔹 💼 F	aste		
Multi-Barcode	Quantity 4 🌩	Barcode Filter	No	Perfect Match		
No.	Position Range	Symbologies Match	Message Length	Position of Matching Charo	acters Match Content	Device Address
Sequence Rule	es Setting				Delete t	he selected rule 🔹
No.	1 📮					
🗷 Barcode /		1 🐺 Window right	1023 🚔			
	Window top	1 📮 Window botto	on 799 🊔			
🔲 Symbologi	es Match AZTEC					
🔟 Message L	ength 8 🚔					
	of Matching Characters	1 🚔 Characters to	be matched		Add	nasking rules
Device Ad	dress 1 🙀				bba	sequence rules



7-2 How to position and sort the barcodes

When multiple barcode rules are enabled, you can set the number of output barcodes currently in the output sequence.



Pull the multi-barcode rule window to one side, and check the mouse box in Image Decoding.

Rulti-Barede Quantity 4 2 Burede Filter 16 Print March 16 Latest inage 1 Latest i	Continuo shootip tosatic paras adjustment Get
Sequese Bales Setting	
Sequere Raise String Plates the related rais of Decing Vinder Sci Decing Vinder right 600 (()) Decing Vinder right 600 (()	
A left 1 m A left 0 m A left	🔝 Decodia
Sequence Balet Setting Balets the Selected rule • Particle Free Particle Free	gs
Sequence Baler Setting Balerte the solaeted rule = Balerte the solaeted	1023 🐳
M 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Exposure Tit
Binder ton 7 Binder batten 7 B	25
	-
Point Distance	
Entrance Length 8 = Initial gray value Position of Matching Characters 1 = Characters to be matched Poly in the second se	0 🌻

After selecting the box with the mouse selection function, the current address information will be automatically updated to the multiple barcode rules, as shown in the figure:



Segence Rales Setting Balate the selected rule • No. 1 Image: Comparison of the selected rule • Barrock Area Findow left 652 Indow top 07 Window bottom 266 Symbologies Math A213 Symbologies Math A2100 Design 0 Initial gray value Of an initial gray value Of an initial gray value Of an initial gray value Of an initial gray value	thernet FV53 Scanning AssistantV2.3.0	mage Decoding Transformation Assistant Firmware Update	Restore Default Layout Device Synchronized Help Options
Segence Rales Setting Balete the selected rule • Balete the selected	Disconnect	(1941-2001-1917)	Inage map Autofocus Use Setting: v Inaging Setting: 1 Decoding
	Septence Rules Setting Balate the selected rule = Bo. 1 m Bo. 1	30mi 100	Decoding Vindow Mode OFF W House Salection left 052 * right 073 * 08 top 07 * bottom 206 * Cancel 5000%Eff Exposure Time 3 * 08 Gain • • • • • • • • • • • • • • • • • • •

To set the second barcode, set the output sequence to 2, and re-select the box to select a new address.

And so on, set the third output barcode, set the output sequence to 3......

The above settings are completed, compiled, and written. You can set the output barcode sorting function in the frame selection area.

The sorting can also be set by the following rules:

Code system matching: you can choose different code systems (one of the barcode rules);

Barcode length: According to application requirements, you can choose different lengths of barcodes (one of the barcode rules);

match characters

Position: Select the position of a barcode, such as barcode ABC23, if you need to find the position of C, the position is 3.

Characters to be matched: Select the characters to be used as barcode rules.

Note: There are new rules that need to be added to the rule table, compiled and written, after this taken the matching rules will take effect.



7-3 Defining the Prefix or Suffix

Open Edit

Edit I/O programming	Transmit Image Decoding Transformation Assistant
Edit	x
💾 Save 🦲 Open 🕨 Compile 🧯	🖉 Write 🚽 Read /
Barcode Editing Process	Basic Editing Quick Editing
	Quick Editing The 1 + th Barcode is ourrently being edited Prefix(Hex) OK Suffix(Hex) OK Character Replacement Position 2 + OK Replace Characters OK
Delete Selected Move Up	<pre></pre>
Move Down	

You can enter the required characters in the text boxes after the prefix and suffix. The input text is in hexadecimal, which can be converted by the conversion assistant. If you want to add "ABC" characters before and after the barcode, open the conversion assistant, enter "ABC", it will be automatically converted to hexadecimal, click to copy the hexadecimal text.

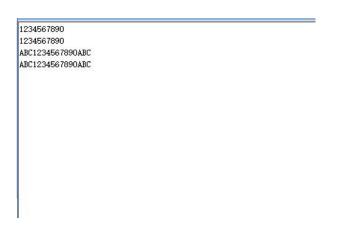
haracter ↓ Hex	ABCDEFG 41424344454647 Copy Hex Te					
Type data	MUL	eg.: 0	CR Setting:"	DCR"	¥	
First Se	ate BarCode end(hex): end(hex): if rec	eive O6	i Od send suc	cess		



Paste the copied hexadecimal text into the corresponding prefix character input box in the barcode editor. Confirm, compile, write.

Barcode Editing Process	Basic Editing Quick Editing
⊡-General edition of bar code 1 ⊢Prefix: ABC Suffix: ABC	Quick Editing The 1 + th Barcode is currently being edited Frefix(Hex) 414243 OK Suffix(Hex) 414243 OK Character Replacement Fosition 2 + OK Replace Characters OK Intercept from the end of 2 + th character to the end of 3 + th character
Delete Selected 🔹 👻	OK OK
Move Up	
Move Down	

As shown in the figure, the barcode information prefix and suffix are "ABC".



In the multi-barcode mode, suffixes can also be added to multiple different barcodes. On the barcode editing page, you can select the number of barcodes currently being edited.

The 1 🔹 th Ba	arcode is currently being edit
Prefix(Hex)	0
Suffix(Hex)	0
Character Replaceme Replace Characters	ent Position 2 🐳 🛛 0
Intercept from the	end of



7-4 the Logic Diagram of IO Output

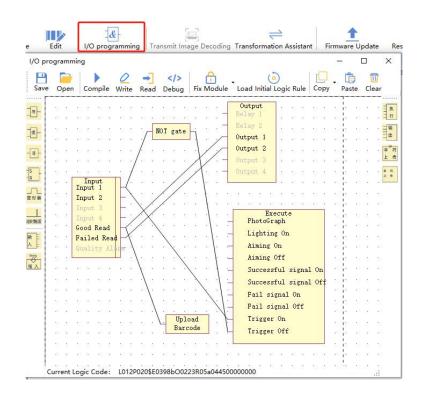
Open I/O programming

Save: save the current I/O logic.

Open: Open I/O logic.

Compile, Write: The modified I/O logic needs to be clicked to compile, then it will take effect after writing.

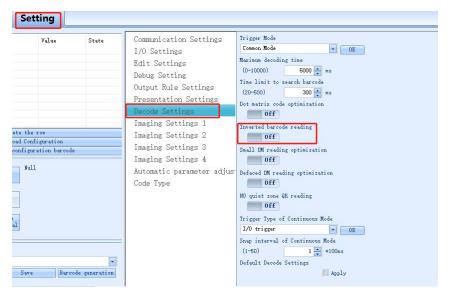
Load Initial Logic Rule: Restore Factory.





7-5 How to read a color-reversed barcode

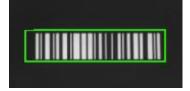
In the settings-Decoding settings, turn on the Inversed barcode reading and set the download.



Inversed barcode reading close



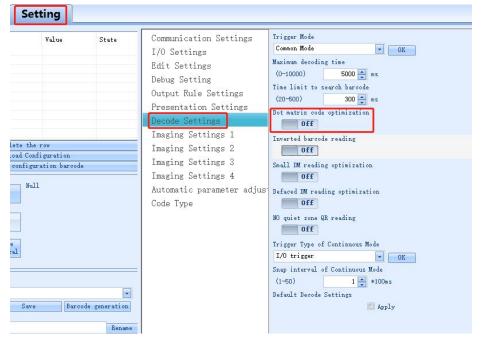
Inversed barcode reading open





7-6 How to Read Dot-matrix Barcode

In the settings-Decoding settings, turn on the Dot-matrix code optimization and set the download.



Dot matirx code optimization close



Dot matirx code optimization open





7-7 How to Read Small-sized or Defaced DM Barcode

Small DM reading optimization

In the settings-Decoding settings, turn on the Small DM reading optimization and set the download.

Sett	ting			
late the n load Configure onfigure Null Null Save	guration ttion barcode	State	Communication Settings I/O Settings Edit Settings Debug Setting Output Rule Settings Presentation Settings Imaging Settings 1 Imaging Settings 3 Imaging Settings 4 Automatic parameter adjust Code Type	Trigger Mode Common Mode Warinaw decoding time (0-10000) 5000 and ms Time limit to search burcode (20-500) 300 and ms Dot matrix code optimization Off Inverted burcode reading Off Small IM reading optimization Off No quiet zone QR reading Off Trigger Type of Continuous Mode I/O trigger v OK Snap interval of Continuous Mode (1-50) 1 and tooms Default Decode Settings Apply
		Renome		

Small DM reading optimization close

Small DM reading optimization open





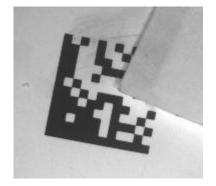


Defaced DM reading optimization

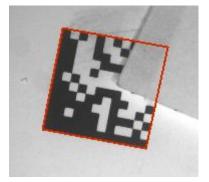
In the settings-Decoding settings, turn on the Defaced DM reading optimization and set the download.

Value ete the row and Configuration configuration barcode Hull d Save Barco	State State	Communication Settings I/O Settings Edit Settings Debug Setting Output Rule Settings Presentation Settings Decode Settings Imaging Settings 1 Imaging Settings 2 Imaging Settings 3 Imaging Settings 4 Automatic parameter adjust Code Type	Trigger Mode Common Mode (O-10000) 5000 mm ms Time limit to search barcode (20-500) 300 mm ms Dot natrix code optimization Off Inverted barcode reading Off Small IM reading optimization Off Defaced IM reading optimization Off Trigger Type of Continuous Mode I/O trigger NO quiet zone QR reading Off Snap interval of Continuous Mode I/O trigger OK Snap interval of Continuous Mode I/O trigger Default Decode Settings Apply
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Defaced DM reading optimization close



Defaced DM reading optimization open





7-8 How to use the polling algorithm for complicated

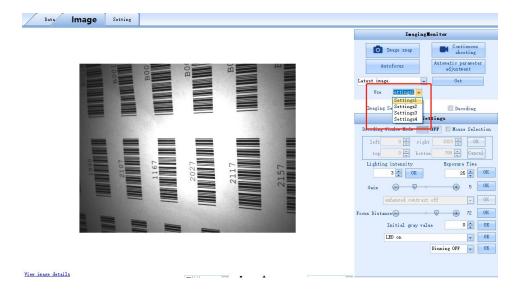
reading

Multiple sets of parameter settings are mainly used in the case of different code symbology, coding media, barcode quality, positions, etc., polling and decoding through different setting parameters.

It can be set through the image interface setting and setting interface.

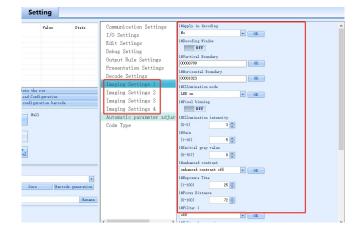
Image window

4 sets of parameters can be set. When setting, you need to confirm the setting of the corresponding imaging parameter group. The parameter group is 1-4. The default is a set of parameter groups, that is, the parameters currently being used. After the setting is completed, you need to tick before "Decoding".



Setting window

Set the parameters required by the application in the corresponding imaging parameter group. After setting, if you want to participate in decoding, select Participate in decoding and set download under whether to participate in decoding.





8 Other settings

8-1 To View Decoded Data after Settings

In the data window, after the device is triggered, if the decoding is successful, the barcode information will be displayed. As shown in the figure:

Data Image Se	tting	
B001A4762N1		
B001A4362W3 B001A4971Y8		
1887		
2027		
8001A4362W3		
B001A4682K2		
B001A4971Y8		
2056		
2056		
2056 2056		
1990		
1167		
B001A4362W3		
B001A4662K2		
8		
Encoding: Chinese Simplified (GB2312) 📰 🔲 Display as Hex	Clear Text



8-2 How to Trigger the Scanner by Computer

Command

In the data window, select the corresponding command, and click Send Command to trigger the device. The device trigger command is "TON" by default, and the cancel trigger command is "TOFF". The command trigger interval can be set, and the timing setting needs to be checked. The default is 1000ms/time.

ationStatistics	tatistics	
	Result	t
	0	
	0	
	0	
	0	
ad triggers	ers O	
Clear Result mode:default		av e
er Type OxFF		
		•
:		
Send Connand	nn and	
	Single	
	Continuous Trigg Trigger Interval	
	500 🛫 ns	

If you want to change the trigger or cancel the trigger, you can change it in Settings - Edit Settings.

/	Data Image Set	ting			
8	Ites Delete the Bowhood Conf Generate configur Configuration Load different configuration Esser correct devise configuration to level entique to level	iguration	State	Communication Settings I/O Settings Edit Settings Debug Setting Output Rule Settings Presentation Settings Imaging Settings 1 Imaging Settings 2 Imaging Settings 3 Imaging Settings 4 Automatic parameter adjust Code Type	Internassie characters ()x (000) () (000) Con Con Con Con Con Con Con Con



8-3 How to simulate keyboard input

Method 1, through the QHQ line

Connect the DB9 (male) end of the QHQ cable to DB9 (female) of the serial communication cable, and the USB end to the PC end.



In the communication settings, the baud rate is set to 9600, and the download can be set. Data output is keyboard input, and data can be viewed in a text file (English mode).

Value	State	Communication Settings	Baud Bate	
9600	Unsent	I/O Settings	9600	• OK
		Edit Settings	Farity	
		Debug Setting	None	- OK
		Output Rule Settings	Data bits/Stop bit	
			8 Data bits 1 Stop bit	- OK
		Presentation Settings	IP Address	
		Decode Settings	192 . 168 . 0 . 100	I OK
		Imaging Settings 1	Subnet Mask	
ete the row		Imaging Settings 2	255 . 255 . 255 . 0	I OK
oad Configuration configuration barco	le	- Imaging Settings 3	Gateway Address	
		Imaging Settings 4	0.0.0.0	I OK
Null		Automatic parameter adjus	DNS Address	
		Code Type	0.0.0.0	I OK
			TCP Port Number	
			(1024-65535) 4096	

Note: QHQ line is optional, if needed, please consult with our sales or technical person to purchase.

Method 2: A converting cable needed

Change the communication mode of the USB port to the USB keyboard port, and the keyboard port output can be realized through the built-in USB cable.



8-4 How to Check the Reader Firmware Version

Information

Click the Help button and click Equipment Information to view the current device model, firmware version number, etc.

lp		
About	Equipment information	Software user guide
	Equipment Type: FV53E	
	Firmware Version: V1.	05A
i	Equipment Serial Numb 2021042921100023	oer:
	Decoding Version: 201	.9. 7. 8401
	Engine Type: NA	
	MAC: 7F:05:2E:25:48	3:99



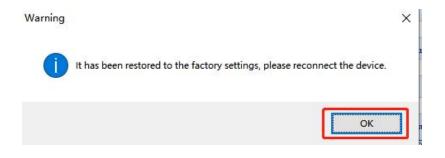
8-5 How to Reset the Scanner to Factory-default

Settings

Click the Restore Default Layout button, click the OK_\circ

formation Assistant	Firmware Update	S Restore Defau	ılt Layout	Device Sy
Warning				×
This action v state	vill restore all settings o	of the current devic	ce to the fact	ory
		ОК	Can	

After hearing the device beep and seeing the success message, the device has been restored to the factory state successfully.





8-6 How to convert characters to Hex code

Click the Transformation assistant, enter the required characters, it will be automatically converted to hexadecimal, copy the content, and paste it.

ansforma	ition Assistant			
haracter	ABC			
↓ Hex	414243			
1164	Copy Hex Tex			
	MUL	eg.: OCR Setting:"OC	R″	
Туре				
Type data		ASCII格式	×	
		ASCII格式	*	