GY-70U Barcode Scanner User Manual

Release v1.1.1

2026-09-02

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1 System Settings

1.1 Factory reset/restart device

> **Warning**
>
> Scanning to restore factory settings will clear the current parameters and restore the factory status; scanning restart settings will immediately restart the device. Please confirm that the current configuration has been recorded before proceeding.

Restore device to factory settings

Device restart settings

1.2 System information query

System information query

1.3 Set as default parameters

Warning

Scanning the current parameters to change them to the default parameters will write the current configuration into the default parameters; scanning to restore the default parameters will restore the saved default parameters. Please confirm the default parameter policy before proceeding.

Change current parameters to default parameters

Restore default parameters

1.4 Buzzer settings

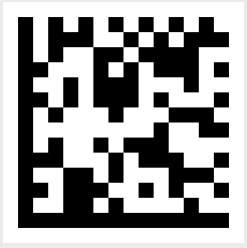
Factory Default: Enable Decode Success Prompt

disable buzzer

2 Device Feature Settings

2.1 Decode Indicator Settings

Factory Default: Enable Decode Success Prompt



Enable Decode Failure Prompt

2.2 Aimer Settings

Factory Default: Enable Aimer

Disable Aimer

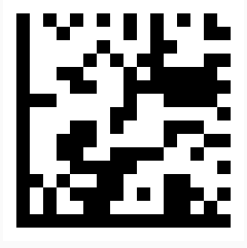
Aimer Always On

2.3 Illumination Settings

Disable Engine Illumination

Factory Default: Enable Engine Illumination

Disable External Illumination 1



Enable External Illumination 1

Disable External Illumination 2	Enable External Illumination 2

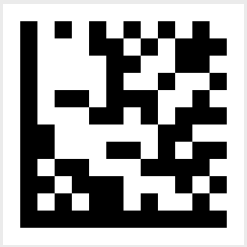
Illumination Switch Time: 1500 ms	Illumination Switch Time: 2000 ms
Factory Default: Illumination Switch Time: 1000 ms	Illumination Switch Time: 500 ms

Note

Only the high-performance version supports external illumination control.

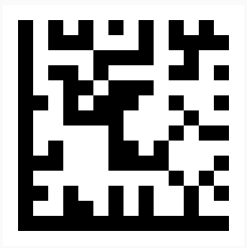
3 Trigger Settings

Serial Trigger Mode

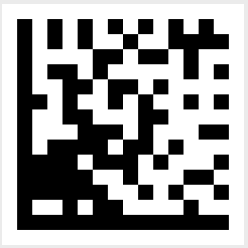


I/O Trigger Mode

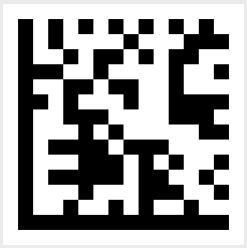
Continuous Decode Mode



Factory Default: Key Trigger Mode



Batch Reading Mode



Presentation Mode

3.1 Continuous Trigger Mode

Decode Interval

Factory Default: 0ms

500ms

200ms

2000ms

1000ms

3.2 Sensor Trigger Mode

Trigger Sensitivity

Factory Default: Medium

Low

High

Sensor Interval

Factory Default: 1000ms

5000ms

2000ms

Sensor Timeout

1000ms	Factory Default: 2000ms
3000ms	5000ms

3.3 Batch Reading Mode

Unified Output

Factory Default: Disable	Enable

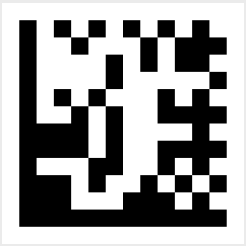
3.4 Serial Trigger Mode

Note

The default start command for serial triggering is `start`, and the default stop command is `stop`. Use `@SETSSX` to set the start trigger command and `@SETESX` to set the end trigger command, where `X` is your custom content. For example, if the start command is set to `A` and the end command is set to `B`, the generated Parameter Barcodes are `@SETSSA` and `@SETESB` respectively.

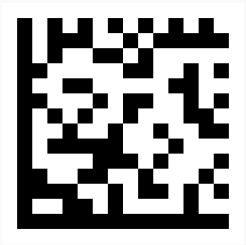
4 Communication Interface Settings

4.1 Communication Interface Switching



Serial Communication Mode

Factory Default: USB HID Communication Mode



USB CDC Communication Mode

4.2 USB Communication Version

Factory Default: USB 1.1

USB 2.0

4.3 Serial Device Discovery

Factory Default: Do Not Use Serial Device for Discovery

Use Serial Device for Discovery

Note

This function can be used when the device is connected to the host through the serial port for debugging, but image transfer is not supported.

4.4 USB Keyboard Output Settings

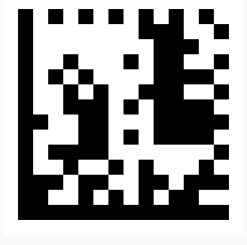
Factory Default: Disable Ignore Caps Lock

Enable Ignore Caps Lock

Factory Default: Disable Character Inversion

Enable Character Inversion

Case Conversion (Lowercase)	Case Conversion (Uppercase)
Factory Default: Disable Case Conversion	Enable Case Conversion

Character Interval: 100	Character Interval: 50
	
Factory Default: Character Interval: 10	Character Interval: 0

Barcode Interval: 100

Barcode Interval: 50

Barcode Interval: 10

Factory Default: Barcode Interval: 0

Characters per Transmission: 20

Characters per Transmission: 10

Factory Default: Characters per Transmission: 1

Factory Default: Disable Ignore Chinese Input Method

Enable Ignore Chinese Input Method

4.5 Serial Port Settings

Baud Rate Settings

19200

38400

4800

Factory Default: 9600

115200

57600

Parity Settings

Even

Odd

Factory Default: None

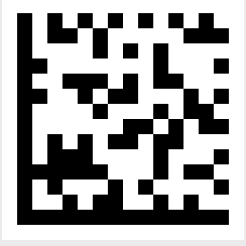
stop bit

2

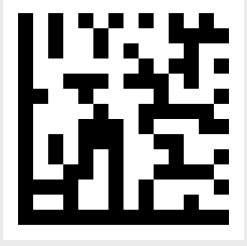
Factory Default: 1

5 Image Parameter Settings

5.1 Auto Image Adjustment Settings



Disable Auto Image Adjustment



Factory Default: Enable Auto Image Adjustment

5.2 Exposure Time Settings

Exposure Time: 1000

Exposure Time: 3000

Exposure Time: 500

Exposure Time: 100

Exposure Time: 10000

Exposure Time: 6000

Exposure Time: 20000

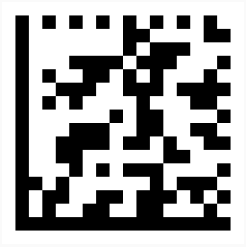
Note

Unit: us

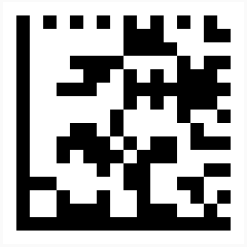
5.3 Gain Settings

Gain: 144

Gain: 32



Gain: 96



Gain: 1

Gain: 255

Gain: 192

Note

Exposure time and gain settings take effect only after Auto Image Adjustment is disabled.

6 Format Configuration

6.1 Duplicate Time Filter Settings

Enable/Disable Duplicate Time Filtering

Factory Default: Disable

Enable

Filter Time Settings

600

300

Factory Default: 30

5000

2000

1000

6.2 Duplicate Count Filter Settings

Enable/Disable Duplicate Count Filtering

Factory Default: Disable

Enable

Filter Count Settings

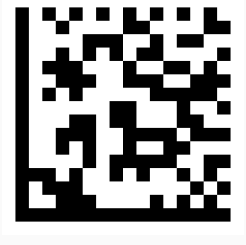
3

Factory Default: 1

2

6

5



4

6.3 Duplicate Barcode Filter Settings

Factory Default: Disable

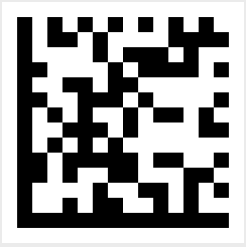
Enable

6.4 Merge Duplicate Barcodes

Factory Default: Disable

Enable

6.5 Barcode Length Limit Commands



Factory Default: Disable

Enable

6.6 Ignore Prefix Settings

Factory Default: Disable

Enable

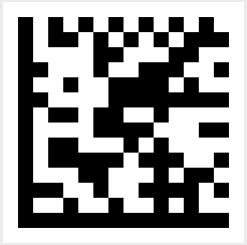
6.7 Specified Prefix Settings

Factory Default: Disable

Enable

6.8 Specified Suffix Settings

Enable



Factory Default: Disable

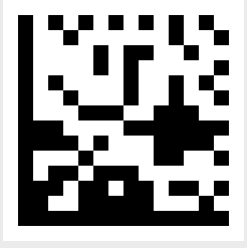
6.9 Required Match Settings

Default: Disable the “Must Contain” Rule

Enable the “Must Contain” Rule

6.10 Excluded Content Settings

Factory Default: Disable



Enable

6.11 Character Requirement Settings

Enable/Disable Character Requirements

Factory Default: Disable

Enable

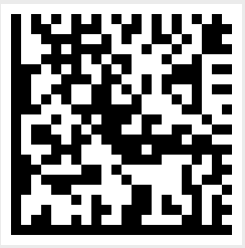
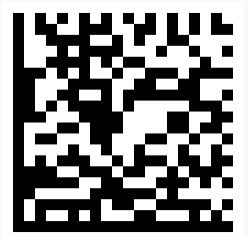
Character Requirement Settings

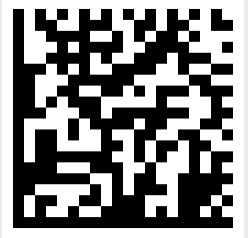
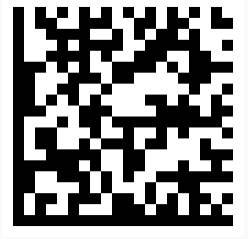
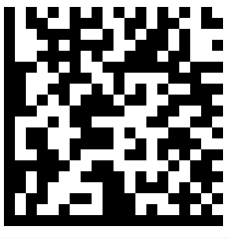
Digit or Letter

All Letters

Factory Default: All Digits

6.12 Barcode End Delimiter

/	 CRLF
 CR	LF
None	

 \	Tab
 _	 -

7 Symbology Settings

7.1 Enable/Disable All Symbologies

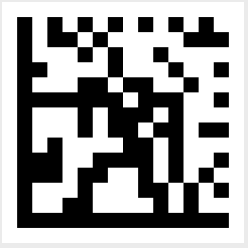
Disable All 1D Symbologies

Enable All 1D Symbologies

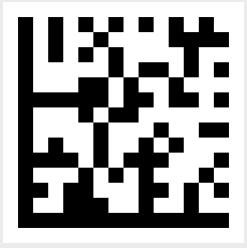
Disable All 2D Symbologies

Enable All 2D Symbologies

7.2 Enable/disable Code 128

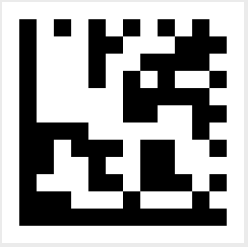


Disable Code 128

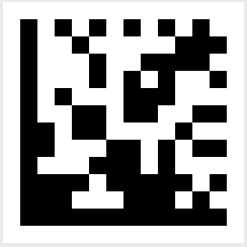


Factory Default: Enable Code 128

7.3 Enable/disable Code 39

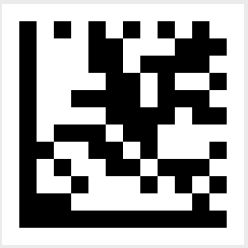


Disable Code 39



Factory Default: Enable Code 39

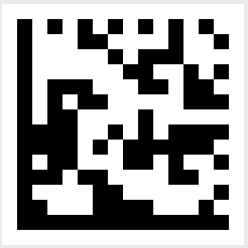
7.4 Enable/disable Code 93



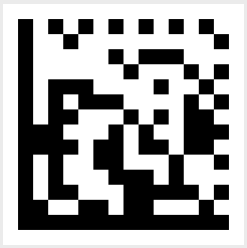
Factory Default: Disable Code 93

Enable Code 93

7.5 Enable/disable EAN-8

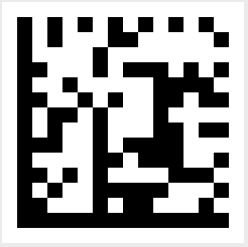


Disable EAN-8



Factory Default: Enable EAN-8

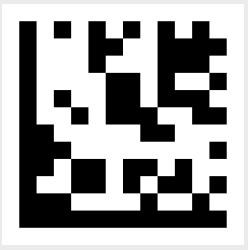
7.6 Enable/disable EAN-13



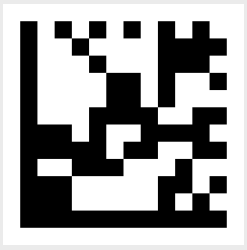
Disable EAN-13

Factory Default: Enable EAN-13

7.7 Enable/Disable ITF25



Factory Default: Disable ITF25



Enable ITF25

7.8 Enable/disable UPC-A

Disable UPC-A

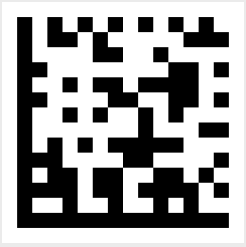
Factory Default: Enable UPC-A

7.9 Enable/disable UPC-E

Disable UPC-E

Factory Default: Enable UPC-E

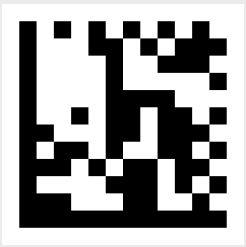
7.10 Enable/disable Codabar



Factory Default: Disable Codabar

Enable Codabar

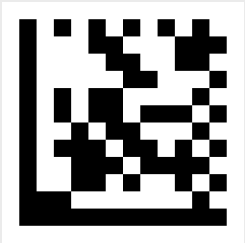
7.11 Enable/disable QR Code



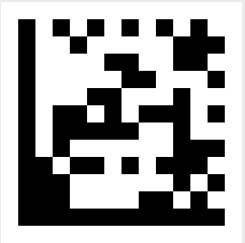
Disable QR Code

Factory Default: Enable QR Code

7.12 Enable/Disable Data Matrix



Disable Data Matrix



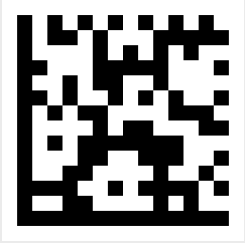
Factory Default: Enable Data Matrix

7.13 Enable/Disable Micro QR

Factory Default: Disable Micro QR

Enable Micro QR

7.14 Enable/disable Aztec Code



Factory Default: Disable Aztec Code

Enable Aztec Code

7.15 Enable/Disable MaxiCode

Factory Default: Disable MaxiCode

Enable MaxiCode

7.16 Number of Barcodes

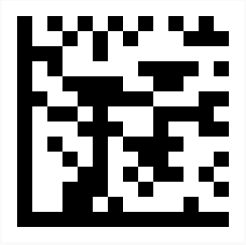
Factory Default: 1

2

7.17 1D Symbology Algorithm Mode

Normal mode

Factory Default: Expert Mode



Ultra-Fast Mode

7.18 2D Symbology Algorithm Mode

Factory Default: Expert Mode

Normal mode

Ultra-Fast Mode

Note

Use Ultra-Fast Mode when the scene is simple and processing time is critical.

8 Appendix

8.1 ASCII Code Table

Hexadecimal	decimal	Character
00	0	NUL
01	1	SOH
02	2	STX
03	3	ETX
04	4	EOT
05	5	ENQ
06	6	ACK
07	7	BEL
08	8	BS
09	9	HT
0a	10	LF/NL
0b	11	VT
0c	12	FF/NP
0d	13	CR
0e	14	SO
0f	15	SI

continues on next page

Table 1 – continued from previous page

Hexadecimal	decimal	Character
10	16	DLE
11	17	DC1/XON
12	18	DC2
13	19	DC3/XOFF
14	20	DC4
15	21	NAK
16	22	SYN
17	23	ETB
18	24	CAN
19	25	EM
1a	26	SUB
1b	27	ESC
1c	28	FS
1d	29	GS
1e	30	RS
1f	31	US
20	32	(Space)
21	33	!
22	34	“
23	35	#
24	36	$
25	37	%
26	38	&
27	39	‘
28	40	(
29	41	)
2a	42	*
2b	43	+
2c	44	,
2d	45	-
2e	46	.
2f	47	/
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3a	58	:
3b	59	;
3c	60	<
3d	61	=
3e	62	>
3f	63	?

continues on next page

Table 1 – continued from previous page

Hexadecimal	decimal	Character
40	64	@
41	65	A
42	66	B
43	67	C
44	68	D
45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4a	74	J
4b	75	K
4c	76	L
4d	77	M
4e	78	N
4f	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5a	90	Z
5b	91	[
5c	92	\
5d	93	]
5e	94	^
5f	95	_
60	96	`
61	97	a
62	98	b
63	99	c
64	100	d
65	101	e
66	102	f
67	103	g
68	104	h
69	105	i
6a	106	j
6b	107	k
6c	108	l
6d	109	m
6e	110	n
6f	111	o

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Table 1 – continued from previous page

Hexadecimal	decimal	Character
70	112	p
71	113	q
72	114	r
73	115	s
74	116	t
75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7a	122	z
7b	123	{
7c	124	|
7d	125	}
7e	126	~
7f	127	DEL