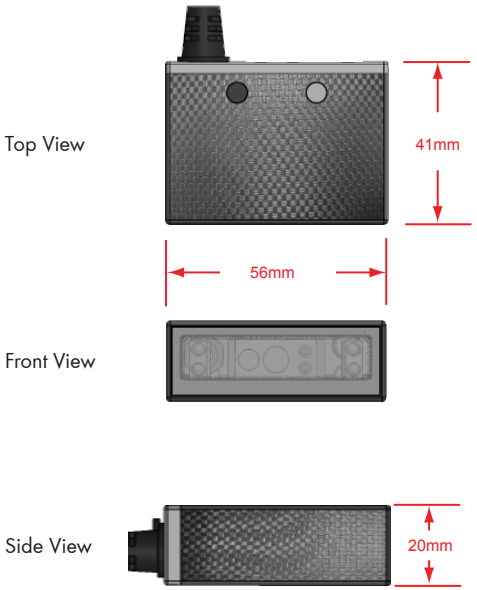
2D Fixed Barcode Scanner Quick Guide

2D Fixed Barcode Scanner Quick Guide (Rev1)
P/N: 8013-0055000

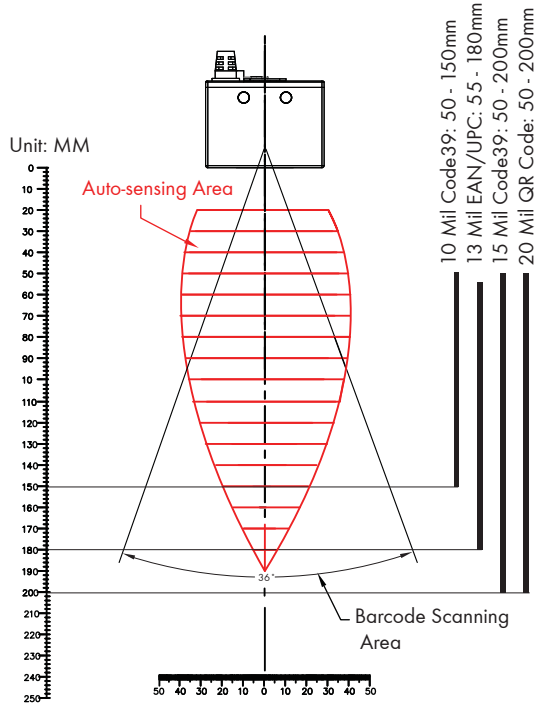
SPECIFICATIONS

Light source	625nm visible red LED
Scan rate	200 scans/sec
Sensor	752×480 CMOS sensor
Resolution	5mil/ 0.127mm
PCS	30%
Width of Field	100mm (13Mil Code39)
Depth of Field	5 Mil Code39: Readable 10 Mil Code39: 50 - 150mm 15 Mil Code39: 50 - 200mm 13 Mil UPC/EAN: 55 - 180mm 20 Mil QR Code: 50 - 200mm
Dimension	W56 x L41 x H20 mm
Housing	ABS (Housing), PC (Back Cover)
Weight	120g ± 10g
Cable Length	90cm/35.4in (Fixed Cable)
Interface	RS232, USB HID
Voltage	5VDC±5%
Working Current	< 350mA
Standby Current	< 50mA
Operating Temp.	-10 to 55°C (14°F to 131°F)
Storage Temp.	-20 to 65°C (-4°F to 149°F)
Ambient Light	100,000 lux
Drop Durability	1.5M
Sealing	IP55
Symbologies	QR Code, DataMatrix, PDF417 and all major 1D barcodes

DIMENSION



SCANNING RANGE

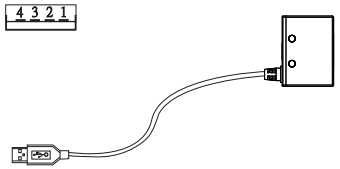


STEP1 - CHECK HARDWARE

USB Hardware

USB (Type A Male):

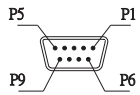
Pin	Signal
1	+5VCC
2	Data -
3	Data +
4	GND

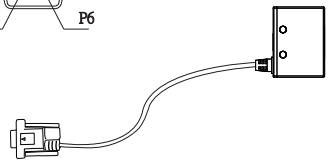


RS232 Hardware

RS232 (D-Sub 9 Female):

Pin	Signal
2	TXD(Out)
3	RXD(In)
5	GND
7	CTS(In)
8	RTS(Out)





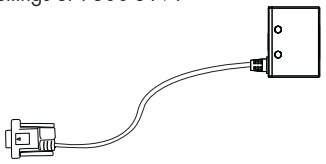
STEP2 - CONNECT TO HOST

USB Connection

1. Connect the scanner to the host.
2. The scanner is powered by the USB connection.
3. Data will be sent as HID keyboard input.

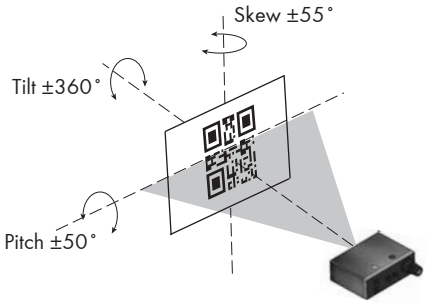
RS232 Connection

1. Connect the scanner to the host.
2. Connect a power adapter(sold separately) to the RS232 connector's DC Jack as external power supply.
3. Data will be sent serially over RS232, with communication settings of 9600-8-N-1

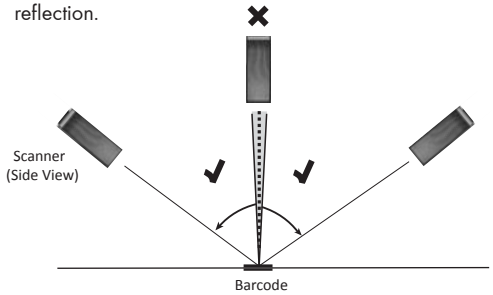


STEP3 - POSITION SCANNER

1. Maximum Scan Angle: Skew ±55°, Pitch ±55°, Tilt ±360°



2. Pitch the scanner at a minimum of ±5° to avoid specular reflection.



STEP4 - INSTALL SOFTWARE UTILITY

Based on different hardware & configuration method, there are 2 types of software utility:

1. **EZU** Software - works with USB interface scanner and supports configuration barcodes

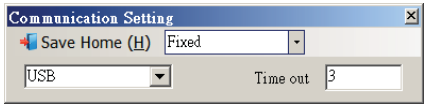
2. **BEO** Software - works with RS232 interface scanner and supports command operation

Both are available for download from below link:

EZU SOFTWARE CONFIGURATION (USB)

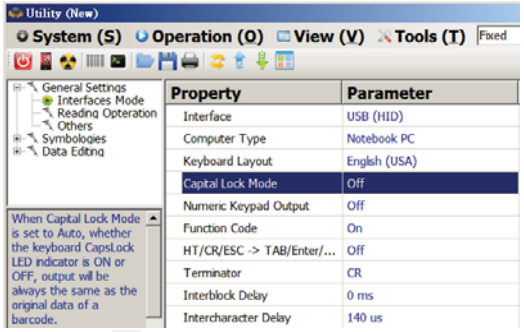
STEP5 - CONNECT

1. Right-click on the Ez Utility icon on the desktop and tick "Run this program as an administrator" in the pop-up menu.
2. Double-click Ez Utility icon on the desktop to launch the program.
3. In Communication Setting window, select "Fixed" as genre and "USB" as interface. Click [Save Home(H)] to continue.



STEP6 - CONFIGURE THE SCANNER

1. Click on icon on the toolbar to retrieve scanner's parameters.
2. Double-click on the items you want to edit and then press [Enter] to save changes.

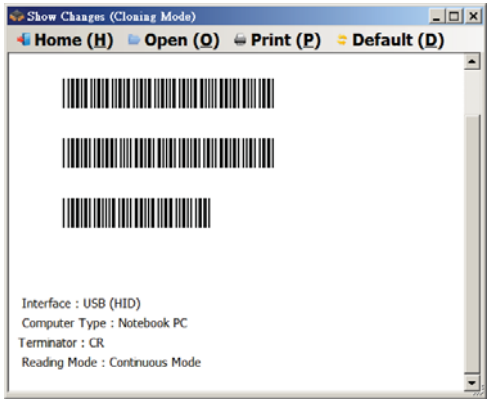


3. Click on icon on the toolbar to update scanner's parameters.
4. Click on icon on the toolbar if you want to save current configurations for later use.

ADVANCED - CONFIGURATION BARCODES

1. Click on icon on the toolbar to generate configuration barcodes.

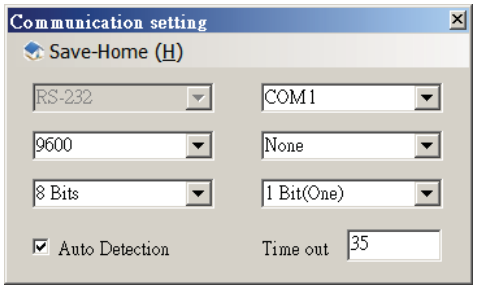
2. Scanning the configuration barcodes from top to bottom allows you to clone the settings to other scanners easily.



BEO SOFTWARE CONFIGURATION (RS232)

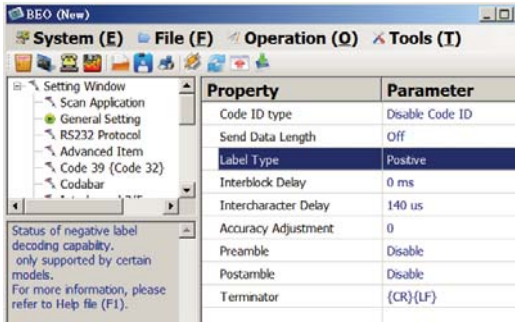
STEP5 - CONNECT

1. Right-click on the BEO icon on the desktop and tick "Run this program as an administrator" in the pop-up menu.
2. Double-click BEO icon on the desktop to launch the program.
3. Click on icon on the toolbar, set 9600-8-N-1 and COM1 as communication settings. Click [Save Home(H)] to continue.



STEP6 - CONFIGURE THE SCANNER

1. Click on icon on the toolbar to retrieve scanner's parameters.
2. Double-click on the items you want to edit and then press [Enter] to save changes.



3. Click on icon on the toolbar to update scanner's parameters.
4. Click on icon on the toolbar if you want to save current configurations for later use.

ADVANCED - COMMAND OPERATION

1. Press [F1] in the program to access help file.
2. Under ***Test Window*** > ***Command Operation*** chapter is full list of commands allowing you to control the scanner by command strings.

3. For example, if you want to configure the scanner to Serial Trigger Mode (i.e. a reading mode that enables the scanner to be triggered by software command), simply send below command string in ASCII to the host:

   {MC01WT6}

4. The scanner will enter Serial Trigger Mode, in which the scanner can be triggered by sending below ASCII command string:

   { } <-- curly brackets with a space in between

6. The scanner will begin to scan barcode.

*Note: serial trigger characters "***{ }***" are configurable.