

User's Manual

Advanced 2D Image Scanner

This User's Manual is intended for:

- 2D Image On-Counter Scanner: Z-8082 Lite

Revision History

Changes to the original manual are listed below:

Version	Date	Description of Version
1.0.0	2019/1/2	Initial Release

Important Notice

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Guidance for Printing

This manual is in A5 size. Please double check your printer setting before printing it out.

Adjustments: Do not attempt any adjustments or alteration of this product. Do not remove the protective housing of the scanner. There are no user-serviceable parts inside.

Optical: The use of optical instruments with this product will increase the eye hazard. Optical instruments include binoculars, magnifying glasses, and microscopes but do not include normal eye glasses worn by the user.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

For CE-countries

This scanner is in conformity with CE standards. Please note that an approved, CE-marked power supply unit should be used in order to maintain CE conformance.

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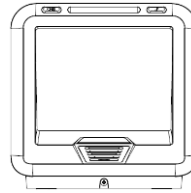
Introduction

Z-8082 Lite on-counter scanner is the new lightweight version of Z-8082. It includes all the core features as well as salient attributes of Z-8082 like 2D scanning, full motion tolerance, and wide scan zone. The instant decoding performance provides efficiency for your 1D and 2D consumer applications. Z-8082 Lite is designed to address today's business needs allowing users to capture data accurately and effectively with minimum complexity.

- High speed and reliable performance on all common 1D and 2D codes
- Offer convenience by its full-directional motion tolerance function and wide scan zone
- VESA 100 compatible to satisfied your mounting demands

Package Contents

2D Image On-Counter Scanner with
Table Mount



Interface Cable - USB or RS-232 (Type
depends on customer selection.)



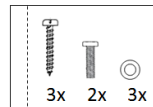
or



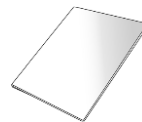
5V Power Adapter (Only for RS-232
cable as optional accessory. Plug type
depends on electrical requirements
of your geographic location.)



Screw Pack

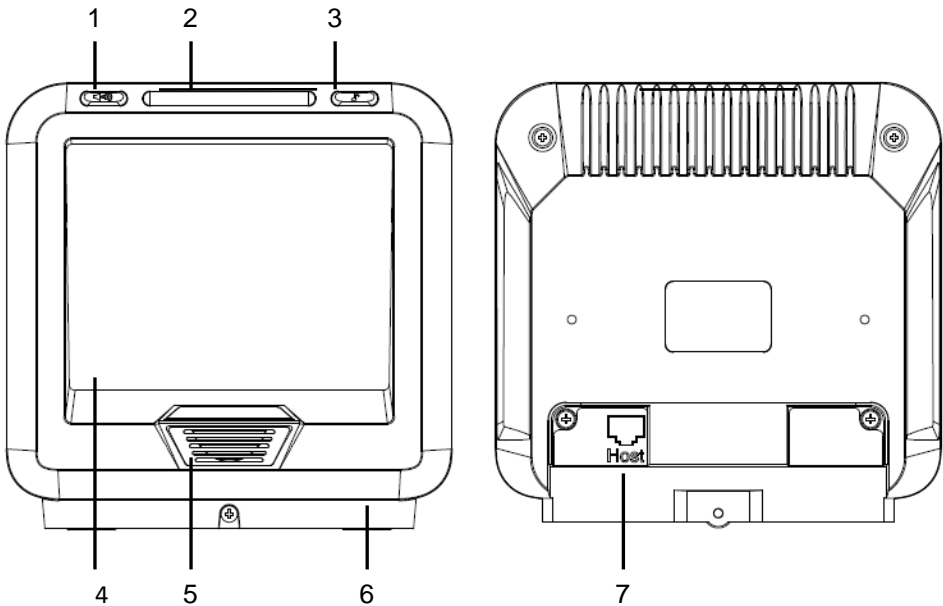


Quick Guide



1. Please leave this user's manual within easy access for persons using the scanner.
2. If any contents are damaged or missing, please contact your dealer immediately.

Product Overview



#	Description	Function
1	Volume Button	Push to switch beep volume
2	LED Indicator	Reading status indication
3	Tone Button	Push to switch beep tone
4	Scan Window	Read barcodes
5	Speaker Exit	For beep tone indication
6	Table Mount	For securing the scanner on the table
7	Host Port	Plug the interface cable into this port



Do not let the scan LED light face directly to human eyes.

Beeper Indication

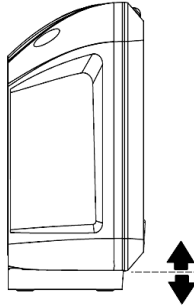
Beeps	Indication
3 beeps in a series from low to high pitch	Power up
1 short beep	A barcode has been successfully decoded
2 short beeps	The scanner has entered program mode
1 long beep	A setting has been programmed
3 beeps in a series from low to high pitch	The scanner has exited program mode
3 short beeps	Error setting the scanner

LED Indication

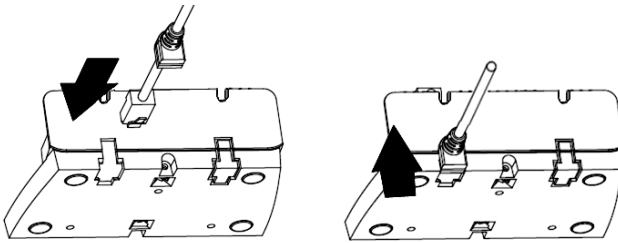
LED	Indication
1 red flash	A barcode has been successfully decoded
Steady blue	Scanner in work mode

Installation

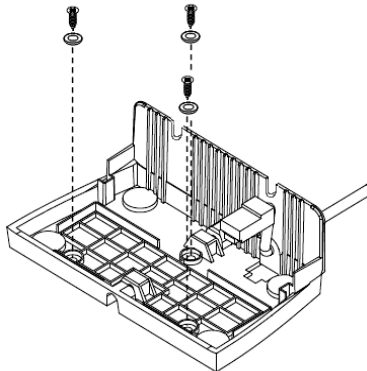
1. Separate **Table Mount** from the scanner.



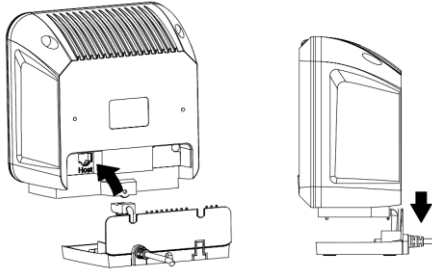
2. Attach the **Interface Cable** by inserting it through the hole on table mount as illustrated.



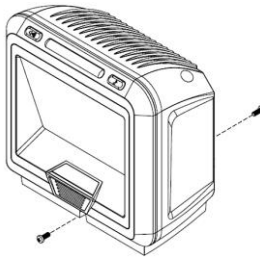
3. Secure the table mount to counter by using three (M3) self tapping screws and washers.



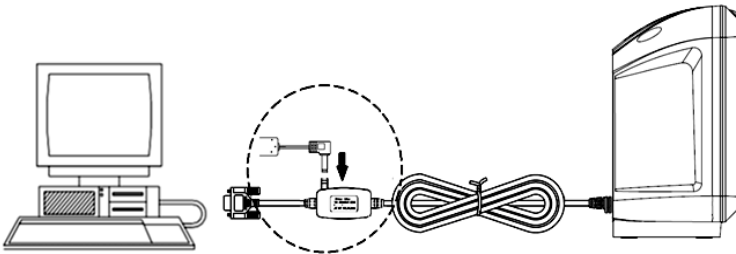
4. Plug the cable into the **Host Port**, then attach the scanner with the table mount.



5. Tightly secure the scanner and table mount with two (M3) machine screws.



6. Connect the cable to the terminal's communication port. Plug the power supply into the power jack on the interface cable if host can not provide sufficient power.



Use only an AC/DC power adapter approved for the scanner. Use of other power supplies may cause damage to the scanner, and void the factory warranty.

Scan Test

1. With the scanner running (blue LED lights) and the host system on, try to scan several known-good barcodes.
2. Check the results on the POS screen. If the scanner is reading okay, it is likely that no further setup is necessary.
3. If the POS screen does not show the expected scans, please refer to the **Programming Guide**.



1. If the scanner is connected to a USB for this test, it should read one barcode, beep and then remain a red LED indicating light. This is normal when the USB is not connected to a live host terminal.
2. If the scanner does not produce any beeps, or produces the wrong beeps, or the LED does not light up, remove the power connection and refer to the Troubleshooting section.

Setting Up the Scanner

In certain cases no setup is required. The scanner is either pre-programmed to suit the situation, or it automatically detects and is ready to go. In other cases the scanner must be informed about what kind of system it is connected to. This can be done in a few moments using the programming barcodes in the **Programming Guide**.

The **Programming Guide** may be used to set a number of parameters on the scanner: communication interface type (RS-232, USB), beep tone, scan mode, baud rate, enable/disable decoding of numerous code types, and more advanced settings like set prefix and suffix.

Individual parameters may be set at any time without affecting the other parameters.

Programming the Scanner

1. When the scanner is powered on (blue LED lights), find the **Set** barcode in the **Quick Start Guide** or **Programming Guide** and present this barcode to the scanner. When the scanner gives two beeps, it means the scanner is in programming mode.
2. Decide which parameters are required and find their barcodes in the **Quick Start Guide** or **Programming Guide**.
3. Cover unwanted codes with your hand and present the desired codes, one by one, to the scanner; the scanner beeps once as it accepts each code.
4. When done, again present the **End** barcode to the scanner. The scanner beeps thrice, it means the scanner is out of programming mode. The scanner has been programmed.
5. Test again with known-good barcodes. If results are good, you are done setting up. Otherwise, return to step 1 and try again.

Standby Mode of Scanner

After the scanner has been inactive for a period of time, the scanner would enter the sleep mode by setting **Standby Time**. The time period of continue scan mode is programmable.

To wake up the scanner, present an object close to the scan window.

Standby Time Programming Parameters



Set



Off (Default)



5 Seconds



10 Seconds



20 Seconds



30 Seconds



60 Seconds



End

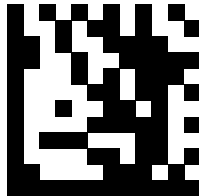


The scanner includes a sensor that detects activity in front of the scan window. The detecting distance is about 5 cm (1.9 inch) from the scan window while in condition with effectiveness of environment lights.

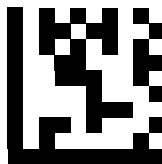
USB Virtual COM Installation

If you use virtual COM port emulation, follow the steps below to start using the scanner.

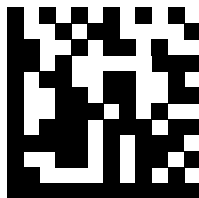
1. Execute the driver (VCOM-Driver-Installation.exe).
2. Connect the scanner USB cable to the host computer.
3. Set the interface to USB Virtual COM Port.



Set



Enable USB virtual COM

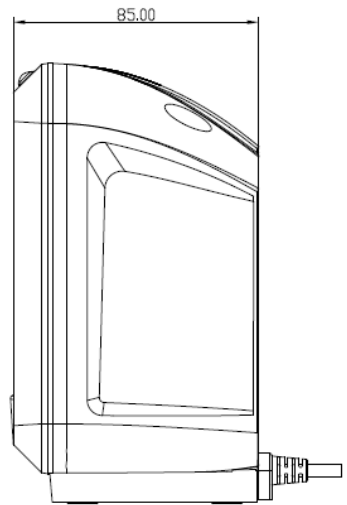
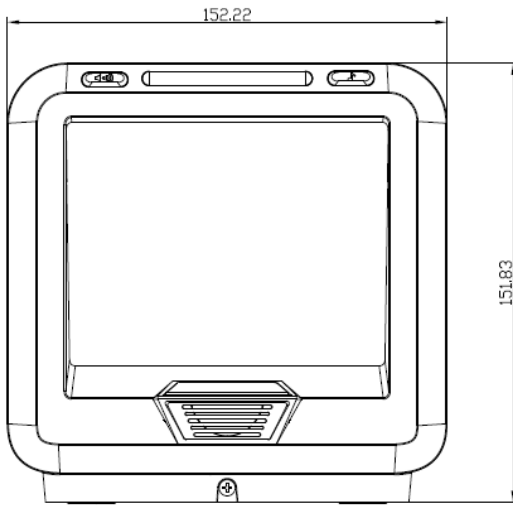


End

On the computer, check Device Manager to see if the computer successfully detects the scanner as “Barcode Scanner USB-COM device.” (The COM port number would vary depending on different hardware environment).

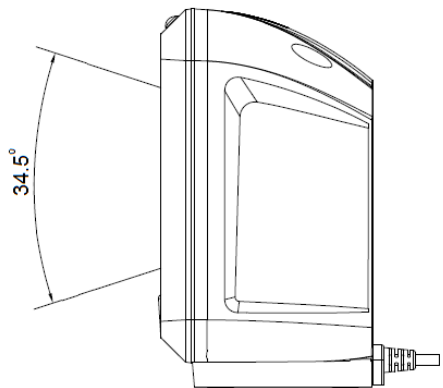
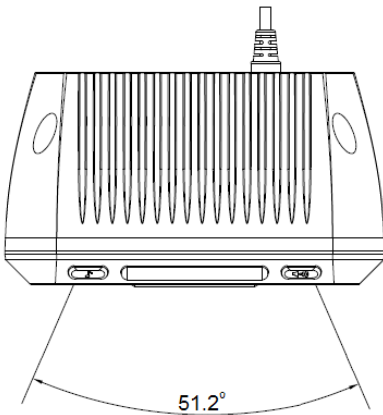


Dimensions



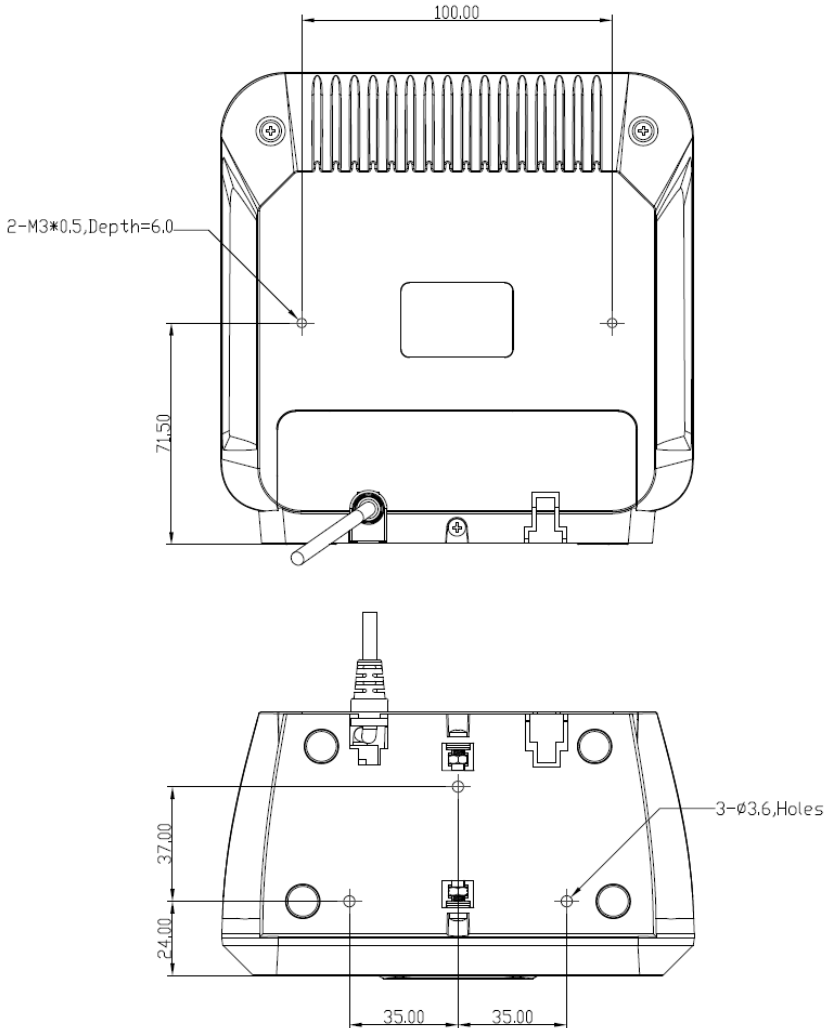
Unit: mm

Scan Angle



Mounting Screw Holes

The device is reserved with several mounting holes for permanent fixture if required. Please refer to the figure below for detailed information.



Unit: mm

Interface Cable Pin Out

RS-232C Cable - DTE pin out (Power adapter required if host can not provide sufficient power)

	PIN-OUT CONFIGURATION	
	DB-9 (F)	FUNCTION
	2	TX
	3	RX
	5	GND
	7	CTS
8	RTS	

USB Cable - USB Type A

	Connector	Function
	1.	VCC
	2.	D-
	3.	D+
	4.	VSS

Specification

Item		Specification	
Operational	Aiming Element	N/A	
	Illumination Element	617 nm * 8 Red LEDs	
	IR Element	N/A	
	Optics Resolution	1280H x 800V Pixels (1.0M)	
	DOF	Code39 (5 mil)	0 - 80 mm
		EAN-13 (13 mil)	0 - 160 mm
	Min. Barcode Width	5 mil (1D)	
	Scan Angle	Hori. ; Vert.	51.2° (H) ; 34.5° (V)
	Roll/ Pitch/ Skew	Angle	360° / ± 60° / ± 60°
	Print Contrast	UPC/EAN 100%	30% @ UPC/EAN 100%
Indicators		Blue (Power) / Red (Good Read)	
Physical	Dimensions	151.8 (H) x 152.2 (W) x 85 (D) mm	
	Weight	470 g	
	Cable	2.0 Meters	
Communication	Interface	USB HID, USB VCOM, RS-232	
Power	Input Voltage	5VDC ± 10%	
	Power Consumption	Operating	200 mA (Average)
		Standby Mode	150 mA (Average)
Regulatory	ESD	Contact	±8 kV
		Air	±15 kV
	EMC		CE & FCC DOC Compliant; VCCI; BSMI
LED Safety		IEC62471	
Environmental	Operating Temperature		0~50°C
	Storing Temperature		-40~70°C
	Operating Humidity		5%~95%
	Light Levels		100,000 Lux
	Drop Durability		1.0 M
	Environment Sealing		IP5X

Cleaning the Scan Window

The scanner is designed for long-term trouble-free operation and rarely requires any maintenance. Only an occasional cleaning of the scanner window is necessary in order to remove dirt and fingerprints.

Wipe the scan window with a soft lint-free cloth and a non-abrasive cleaner to avoid scratching and damaging the scan window. The scan window may be cleaned while the scanner is running.

Trouble Shooting

This section contains information about how to solve problems that you may encounter when operating the scanner. However, before referring to the tips, make sure that the scanner is installed as instructed in this manual and that all cables are properly connected. If the problem remains, please contact your dealer.

Problem	Diagnostic Tips
The scanner is on but cannot read barcodes.	<p>The scanner window is dirty. Clean the scanner window as described in the Maintenance section.</p> <p>The presented barcode type is not enabled. Select the barcode type in the Programming Guide.</p> <p>The host disables the scanner.</p> <p>The barcode type you presented to the scanner is not supported.</p>