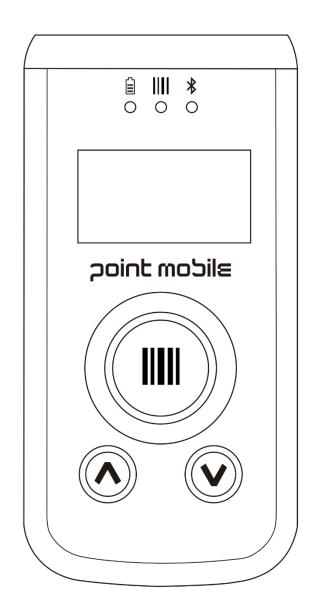


PM3 User Guide



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1. Introduction

Thank you for purchasing PM3 Bluetooth Scanner.

This manual generally provides you with the safety information and basic features and operations of the PM3 device. Please read all safety precautions and this manual carefully before using your device and peripherals to ensure safe and proper use.

About the PM3 Bluetooth Scanner

The new PM3 is the latest generation Bluetooth scanner, combining a pocket sized form factor. The PM3 is designed for retail warehousing and logistics applications where maximum performance and durability is required in compact Handheld device.

The PM3 is available in different models depending on the options.

Accessories

Power Supply

AC Adaptor INPUT: AC100~240V 50/60Hz, OUTPUT: DC5V 0.7A Power Supply

Cables

Packed with the Power Supply

Others

Customized necklace String (when requested)

PM3 Bluetooth Scanner contains the following items basically:

- Bluetooth scanner
- 5V/0.7A AC Adaptor with USB Cable
- AC Plugs

NOTE: Keep the original packaging for use when sending products to the technical assistance center. Damage caused by improper packaging is not covered under the warranty

2. Safety Regulations

Symbols in this manual

In this manual, some important items are described with the symbols shown below. Be sure to read these items before using this equipment.

MARNING Indicates a potentially hazardous situation which, if not avoided, could result in death serious injury, or serious damage, or fire in the equipment or surrounding objects.



AVERTISSEMENT Le terme **AVERTISSEMENT** indique une situation potentiellement dangereuse qui, si elle n'est pas évitée, peut entraîner la mort, des blessures graves, des dommages importants ou l'incendie d'objets et biens d'équipement environnants.

CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, partial damage to the equipment or surrounding objects, or loss of data.

ATTENTION Le terme ATTENTION indique une situation potentiellement dangereuse qui, si elle n'est pas évitée, peut entraîner des blessures mineures ou modérées, des dégâts partiels à l'équipement, aux objets environnants ou la perte de données.

NOTE Indicates information to which you should pay attention when operating the equipment.

This section outlines the safety precautions associated with using PM3 Bluetooth scanner.

NOTE: PM3 Bluetooth scanners meet or exceed the requirements of all applicable standards organizations for safe operation. However, as with any electrical equipment, the best way to ensure safe operation is to read this manual carefully before performing any type of connection to the Bluetooth scanner and operate them according to the agency guidelines described in the manual.

2.1. General Safety Rules

- Use only the components supplied by the manufacturer for the specific PM3 being used.
- Do not attempt to disassemble the PM3 Bluetooth scanner, as it does not contain parts that can be repaired by the user. Any tampering will invalidate the warranty.
- When replacing the battery or at the end of the operative life of the PM3 Bluetooth scanner, disposal must be performed in compliance with the laws in force in your country.
- Before using the devices, read this manual carefully.
- Do not submerge the PM3 Bluetooth scanner in liquid products.

CAUTION ATTENTION

Utilisez uniquement les composants fournis par le fabricant pour l'utilisation du PM3.

Ne tentez pas de démonter le PM3. Ce produit ne contient aucune pièce ne pouvant être réparée par l'utilisateur. Toute manipulation fera perdre la garantie au produit.

Lors du remplacement de la batterie ou en fin de vie du terminal portatif PM3, l'élimination et le recyclage doit être effectuée en conformité avec les lois en vigueur dans votre pays.

Avant d'utiliser les appareils et les batteries, lire attentivement ce manuel.

Ne pas plonger le PM3 dans des produits liquides.

2.2. Power Supply

The power supply for this device has met applicable FCC/CE/CCC/UL /safety requirements. Please adhere to the following safety instructions per UL guidelines:

- FAILURE TO FOLLOW THE INSTRUCTIONS OUTLINED MAY LEAD TO SERIOUS PERSONAL INJURY AND POSSIBLE PROPERTY DAMAGE.
- IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS.

MARNING

• DANGER – TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

WARNING AVERTISSEMENT

DANGER - POUR RÉDUIRE LES RISQUES D'INCENDIE OU DE CHOC ÉLECTRIQUE, VEUILLEZ SUIVRE ATTENTIVEMENT CES INSTRUCTIONS.

Use only Pointmobile-approved power supply. Use of a non-Pointmobile-approved power supply may be dangerous and the warranty does not cover damage to the device caused by non-Pointmobileapproved power supply. The package includes international AC plugs. The AC plugs must be plugged in the power supply before the power supply itself is plugged on the wall outlet. The power supply is intended to be correctly oriented in a vertical or horizontal or floor mount position.

N'utilisez que l'alimentation fournie et approuvée par Pointmobile. L'utilisation de toute autre alimentation peut être dangereuse. La garantie ne couvre pas les dommages causés à l'appareil par une autre alimentation que celle fournie par Pointmobile. L'alimentation est livrée avec des adaptateurs AC pour les différentes prises Internationales. Ces prises adaptateur doivent être installées à l'alimentation électrique avant que cette dernière soit elle-même branchée sur la prise murale. L'alimentation est destinée à être orientée en position verticale ou horizontale.

2.3. Laser Safety

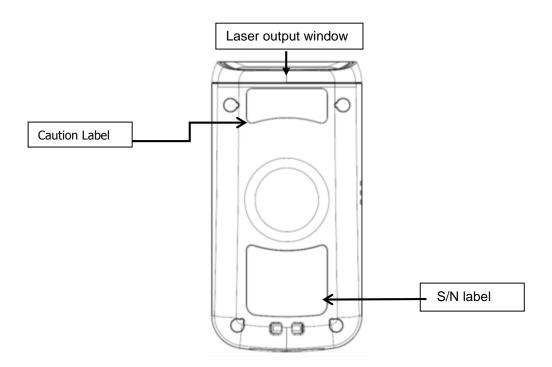
A Class 2 laser is safe because the blink reflex limit the exposure to no more than 0.25 seconds. It only applies to visible-light lasers (400–700 nm). Class-2 lasers are limited to 1mW continuous wave, or more if the emission time is less than 0.25 seconds or if the light is not spatially coherent. Although staring directly at the laser beam momentarily causes no known biological damage, avoid staring at the beam as one would with any very strong light source, such as the sun. Avoid that the laser beam hits the eye of an observer, even though reflective surfaces such as mirrors, etc.

The laser light is visible to the human eye and is emitted from the window indicated in the figure.

ATTENTION

Un laser de classe 2 reste inoffensif pour les yeux. Le réflexe de clignement de l'œil limite l'exposition à 0,25 secondes au plus. Ceci s'applique uniquement aux lasers de lumière visible (400-700 nm). Les Lasers de Classe 2 sont limités à 1 mW (onde continue), ou davantage si le temps d'émission est inférieur à 0,25 secondes ou encore si la lumière n'est pas cohérente dans l'espace. Bien que le fait de regarder directement le faisceau laser ne cause pas de dommage biologique momentané, il est conseillé d'éviter de regarder le faisceau ainsi que n'importe quelle source de lumière très forte, comme le soleil. Évitez également que le faisceau laser frappe l'œil d'un observateur, ainsi que toutes surfaces réfléchissantes environnantes, telles que des miroirs, etc

La lumière laser est visible pour l'œil humain et est émise à partir de la fenêtre indiquée sur la figure.



If the above laser light label is attached to your device, it indicates the product contains a laser engine or laser aimer that emits the laser light. The following information is provided to comply with the rules imposed by international authorities and refers to the correct use of PM3 Bluetooth scanner.

Laser Safety Statement

This product has been tested in accordance with and complies with CDRH 21 CFR 1040.10 and 1040.11 and IEC 450825-1 Ed 2 (2007) except for deviations pursuant to Laser Notice No 50, dated June 24, 2007. LASER LIGHT. DO NOT STARE INTO BEAM. CLASS 2 LASER PRODUCTS. 1 mW MAX OUTPUT: 650nm.

For installation, use and maintenance, it is not necessary to open the device.

MARNING: Do not attempt to open or otherwise service any components in the optics cavity. Opening or servicing any part of the optics cavity by unauthorized personnel may violate laser safety regulations. The optics system is a factory only repair item.

AVERTISSEMENT : Ne tentez pas d'ouvrir ou d'intervenir de quelque manière que ce soit sur les composants de la cavité optique. L'ouverture ou l'entretien d'une partie de la cavité optique par des personnes non autorisées pourrait enfreindre les règlementations liées aux normes de sécurité laser. La réparation du système optique ne peut être prise en charge que par le personnel qualifié du fabricant.

MARNING: Use of controls or adjustments or performance of procedures other than those specified herein may result in exposure to hazardous visible laser light.

AVERTISSEMENT : Toute manipulation, réglage, ou l'exécution des procédures autres que ceux spécifiés ici peuvent entraîner une exposition dangereuse à la lumière visible du laser.

MARNING: Use of optical systems with the scanner will increase eye hazard. Optical instruments include binoculars, microscopes, eye glasses and magnifying glasses.

AVERTISSEMENT : L'utilisation du scanner avec des systèmes optiques tels que jumelles, microscopes, lunettes de vue et autres loupes, augmente les risques de dommages pour les yeux.

2.4. LED Safety

The LED output on this device has met IEC62471 LED safety and certified to be under the limits of a CLASS 1 LED product.

2.5. **CB Scheme**

This device complies with CB Scheme IEC 60950-1

2.6. Radio Compliance

PM3 RF terminals are in conformity with all essential requirements of the R&TTE Directive (1999/5/EC).

This device is marked with **CE0984** (D) in accordance with the Class II product requirements specified in the R&TTE Directive, 1999/5/EC. The device is intended for use throughout the European Community; PAN European Frequency Range: 2.402 ~ 2.480 GHz. Restrictions for use in France are as follows:

- Indoor use: maximum power (EIRP*) of 100 mW for the entire 2.400 ~ 2.4835 GHz
- Outdoor use: Maximum power (EIRP*) of 100 mW for the 2.400 ~ 2.454 GHz band and maximum power (EIRP*) of 10 mW for the 2.454 ~ 2.483 GHz band.

CE The CE mark on the device indicates that the system has been tested to and confirm with the provisions noted within the 2004/108/EC Electromagnetic Compatibility Directive and the 2006/95/EC Low Voltage Directive, 1999/5/EC (R&TTE), and 2011/65/EU (RoHS). Pointmobile shall not be responsible for use of our product with equipment (i.e., power supplies, personal computers, etc.) that is not CE marked and does not comply with the Low Voltage Directive.

2.7. WEEE Compliance

Information for the user in accordance with the European Commission Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on Waste Electrical and Electronic Equipment (WEEE)

This product has required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment, if not properly disposed. In order to avoid the dissemination of those substances in our environment and diminish the pressure on the natural resources, we encourage you to reuse, recycle and recover the product. If the product is disposed according to the Directive, it will avoid potentially negative consequences to the environment and human health which otherwise could be caused by incorrect disposal.



The product marked with crossed out wheeled bin must be disposed separately from municipal waste.

For more detailed information about disposal, reuse, and recycle system, contact your local or regional waste administration.

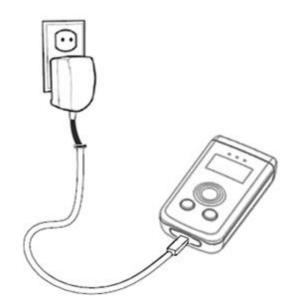
3. Getting Started

3.1. Charge the Device

Battery pack is assembled inside of the PM3 Bluetooth scanner. Charge the device with the charging cable for **a minimum of 4 or 6 hours before initial use**.

- 1. Attach the appropriate plug adapter to the plug of the power cable.
- 2. Insert the plug into the appropriate power source.

Plug the Bluetooth scanner power cable into the USB Jack on the side end of the unit.



WARNING: Use only Pointmobile-approved peripherals, power cables, and power adapters. Unauthorized peripherals, cables, or power adapters may cause explosion or damage on your device. DO NOT attempt to charge damp/wet Bluetooth scanners or batteries. All components must be dry before connecting to an external power source.

Batteries must be charged at a temperature ranging from $0\sim45^{\circ}$ (±3°C). If you don't follow the guide, it might have a harmful effect on the battery life.

AVERTISSEMENT: Veillez à n'utiliser que les périphériques approuvés par Pointmobile (câbles d'alimentation et adaptateurs électriques). Tout périphérique non autorisé (câble ou adaptateur) peut provoquer l'explosion de la batterie ou endommager votre appareil.

NE PAS tenter de recharger les terminaux ou les batteries encore humides lorsqu'ils ont été mouillés. Tous les composants doivent être impérativement séchés avant la connexion à une source d'alimentation externe. Les batteries doivent être chargées à une température allant de 0~45°C (± 3°C). Le non-respect de ces recommandations pourrait avoir un effet néfaste sur la durée de vie de la batterie.

CAUTION: After the device has been charged, disconnect the DC Power Jack. If you stay on that plug in use, it is possible to break the power cord.

ATTENTION: Après une période de charge de la batterie, veillez à débrancher le connecteur du chargeur. Une utilisation prolongée de celui-ci risquerait d'endommager le cordon d'alimentation.

3.2. LED Indicators

4

The red LED is ON while charging the battery and the green LED is ON when the battery is fully charged.

During the charging process, the LED positioned at the upper-left side of the display is red constant. Once the charging process has been completed this LED is green constant.

3.3. Turn Your Device On

Press the UP key for 1 second.

3.4. Turn Your Device Off

Press the UP key for 5 seconds.

4. Get to Know Your Device

Feature of Your Device 4.1.

The following list outlines a few of the feature included in your device.

PM3 Bluetooth scanner 4.2.

- Micro Processor: 32-bit ARM® Cortex®-M4 RISC processor 120Mhz \geq
- \triangleright RAM Memory: 128KB
- FLASH Memory: 1MB, 4MB Storage \triangleright
- ≻ 0.96" OLED Display: 128x64 Dot Passive Matrix/Monochrome(Blue)
- \triangleright Keyboards: 3 Keys(1 Scan key, 2 Menu keys)
- ≻ Power Supply : AC power adaptor
- HandyLink connector: USB 2.0 Full speed Client, ≻
- \triangleright Scan Engine:
 - 1D engine: SE965HP •
 - 1D engine: N4313 •
 - 1D CCD engine : SE655 •
 - 2D engine : SE4710
- Battery: Lithium Polymer battery, Standard 3.7V/900mAh
- AAA IP54(IEC 60529)
- Audio: Built-in speaker
- ≻ BT: Bluetooth Radio 2.1+EDR with Internal Antenna
- \triangleright Notification LEDs
 - 1) Power indications, 2) Scan reading indications 3)BT pairing indication
- Notification Vibration Motor ۶
- NFC: 13.56MHz HF, ISO14443A, ISO14443B & ISO15693 are supportive, Mifare ۶
- \triangleright GPS: Stand-alone GPS

4.3. Front Panel Layout

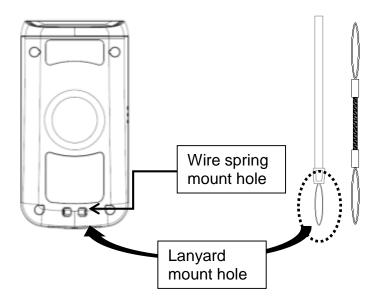


LED Indicator

Shows the information needed to operate your device as follows:

LED Color	Meaning		
Front Le	ft		
Red	Lights when main battery is charging		
Green	Lights when main battery charging has completed.		
> Front Mi	ddle		
Red	Light when a scan fails		
Blue	Light when a scan pass		
≻ Front Rie Blue	ght Light when Bluetooth pairing has completed		

4.4. Back Panel Layout



Battery Installed Inside of the Device

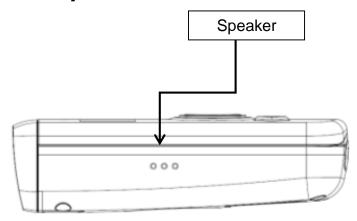
For information about battery power, see Battery Power on paragraph 4.12.

Speaker

The integrated speaker sounds audio signals as you scan bar code labels and enter data, The speaker meets the following SPL levels at 10cm:

- 500Hz-70dB
- 1kHz–80dB
- 4kHz–80dB

4.5. Left Side Panel Layout



4.6. Top Panel Layout

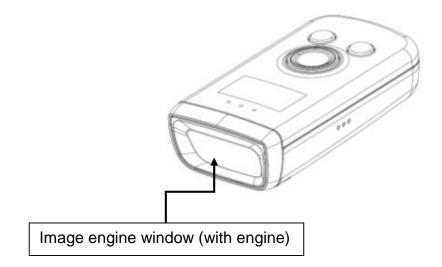
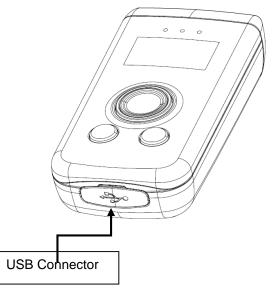


Image Engine Window

The angled image engine reads and decodes most popular bar code symbolizes. For more information, see Using the Image Engine on paragraph 6.

4.7. Bottom Panel Layout



USB Port

This connector supports full speed USB 2.0 communication Also external power from the MicroUSB Adaptor that is included with the terminal. When connected to the MicroUSB Adaptor, the terminal is powered and the main battery pack is charging.

4.8. USB Cable

The Micro USB Cable is used when communicating between the terminal and a host computer to transfer data via the USB interface.

4.9. Battery Power

The battery works to prevent data loss when the terminal is used over long periods of time.

The battery must be charged to full capacity before using the BLUETOOTH SCANNER AC Adaptor for the first time!

Charge the main battery pack with the Bluetooth scanner AC Adaptor for **a minimum of 4 or 6** hours depending on your battery before initial use.

4.10. Resetting the Terminal

The device is reset when pressing the SCAN, UP, and DOWN Key at the same time, and press The UP key for 1 second to turn it on.

4.11. Sleep Mode

Sleep Mode suspends terminal operation. The terminal appears to be "off" when in Sleep Mode. The terminal is programmed to go into Sleep Mode automatically when inactive for a specified period of time. You can set this time period in the "Sleep Timeout" menu.

4.12. PM3 Technical Specifications

Model	PM3
Operating System	Firmware
Processor	ATMEL SAM4S16C, 32-bit ARM® Cortex®-M4 RISC processor 120Mhz
Memory	1MB(PGM), 4MB Storage Flash, 128KB RAM
Storage Expansion	N/A
Display	Bright OLED/ 0.96 inch(21.74mm x 11.18mm Active Area)
Scan Engine	1D engine: SE-965HP, N4313 2D engine: SE4710 CCD: SE655
Keypad	3 keys [1 scan key, 2 menu Keys (Up & Down)]
Audio	Built-in speaker
I/O	Full Speed USB v2.0(12Mbps) Client. support USB Disk Mode & USB to Serial mode

Battery	3.7V, 910mAh		
Expected Charge Time	< 4 hours (from Low-Battery Shutdown level)		
Charging Peripherals	USB Cable		
Operating Temperature	-10°C to 50°C		
Charging Temperature	0~45℃ (±3℃))		
Storage Temperature	-20°C to 60°C		
Humidity	95% humidity, non-condensing		
Construction	High impact resistant PC housings		
Drop	1.5m multiple drops to concrete, MIL-STD-810G		
ESD	Air: $\pm 15kV$ Direct: $\pm 8kV$		
Environmental	Independently certified to meet IP54 standards for moisture and particle resistance		
Dimensions	78.5mm x 39.0mm x 19.4mm		
Weight	N4313 : 67g SE655 : 61g SE965 : 65g SE4710 : 65g		

5. Using the Keys



5.1. Scan Key

Located at the center of the keypad for easy access with either hand Scanning Barcodes or choosing options in menu.

5.2. Up Key

Located at the bottom left Moving up in the menu

NOTE: Press the UP and DOWN Key at the same time to move to the main menu

5.3. Down Keys

Located at the bottom right Moving down in the menu

NOTE: Press the UP and DOWN Key at the same time to move to the main menu

6. Using the Image Engine

6.1. **Overview**

The BLUETOOTH SCANNER contains an SE4710 2D image engine that instantly reads all popular 1D and 2D bar codes and supports omni-directional aiming and decoding or a SE965HP, SE655, N4313 1D laser engine that reads all popular 1D bar codes. The image engine can also capture digital images, such as signatures and pictures.

NOTE: It may not read the barcode due to specular reflection if scanning from directly above. Try again after

changing angle.

NOTE: It may not read the barcode, if this Bluetooth scanner is too close to or too far from the barcode even if the barcode is within the aiming range. Move the Bluetooth scanner toward or away from the barcode slowly and try again. The aiming range is for reference only.

NOTE: It may not read the barcode if the barcode surface is curved. Scan the barcode at the center of the aiming range.

NOTE: It may not read the barcode if the barcode surface is dirty. Try again after cleaning the barcode.

INTE: It may not read the barcode if the image engine window is dirty. Try again after wiping the window with a cotton swab or similar soft object gently.

NOTE: It may not read the barcode according to the direct sunlight or the brightness of the surrounding. Try again away from the direct sunlight. Try again after adjusting the brightness of the surrounding if indoors.

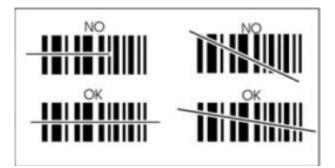
NOTE: It may not read the barcode if it is blue on white background. Try again after changing angle or adjusting the brightness of the surrounding.

NOTE: It may not read the barcode if it is black on silver background. Try again after changing angle or adjusting the brightness of the surrounding.

NOTE: Bar codes printed on glossy or laminated paper are best read at angles greater than 5° in relation to the Laser Engine. This prevents bright illumination reflections from being returned to the Laser Engine.. NOTE: Performance may be impacted by bar code quality and environmental conditions

NOTE: Misreading may occur, if the bar code isn't positioned correctly. Recommended scanner beam positions are as follows





6.2. Available Image Engines

The BLUETOOTH SCANNER is equipped with an SE4710.

6.3. Depth of Field

Depth of Field for SE4710

Bar Code Type	Scan Angle /Focus Position	Near Distance	Far Distance	
		Guaranteed	Guaranteed	
PDF417, 5mil. 80% MRD	Default	4.25 in/10.79 cm	7.25 in/18.51 cm	
UPCA, 13mil. 80% MRD	Default		19.9 in/50.54 cm	

6.4. Supported Bar Code Symbologies

Symbology Type	Symbology Name	
SE4710	UPC A,	UPC E,
Symbologies	UPC E1,	EAN 8,
	EAN 13,	BOOKLAND EAN,
	CODE 128,	GS1 128,
	ISBT 128,	CODE 39,
	TRIOPTIC CODE 39,	CODE 93,
	CODE 11,	INTERLEAVED 2 OF 5
	DISCRETE 2 OF 5,	CODABAR,
	MSI,	GS1 DATABAR,
	GS1 DATABAR LIMITED,	GS1 DATABAR EXPANDED,
	UCC COUPON,	CHINESE 2 OF 5,
	MATRIX 2 OF 5,	KOREAN 3 OF 5,
	US POSTNET,	US PLANET,
	UK POSTAL,	JAPAN POSTAL,
	AUSTRALIA POST,	NETHERLANDS KIX CODE,
	USPS 4CB/ONE CODE/INTELLIGENT MAIL,	
	COMPOSITE CC-C,	COMPOSITE CC-A/B,
	COMPOSITE TLC-39,	PDF417,
	MICROPDF417,	DATA MATRIX,
	MAXICODE,	QR CODE,
	MICRO QR,	ĂZTEC,
	HAN XIN	

6.5. To Decode a Bar Code

- 1. Position the Bluetooth scanner over one of the Sample Bar Codes on paragraph 6.9. A range of 4–10 inches (10–25 cm) from the bar code is recommended.
- 2. Project the aiming brackets by pressing and holding the **Scan** key. The Scan LED lights red.
- 3. Center the aimer crosshair over the bar code. The aiming beam should be oriented in line with the bar code to achieve optimal decoding; Omni-Directional Scanning Positions on paragraph 6.10.
- 4. When the bar code is successfully decoded, the decode LED lights blue and the terminal beeps.

6.6. Sample Bar Codes

You can use the following bar codes to verify decoding:



7. Using the Laser/CCD Engine

7.1. Overview

The BLUETOOTH SCANNER (N4313/SE965HP laser version, SE655 CCD version) contains a laser diode that emits a beam toward an oscillating mirror that scans through the code and the reflected light is bounced off of two mirrors back to the collector. The laser version reads all popular 1D bar codes. See Overview on paragraph 6.1 also.

NOTE: Performance may be impacted by bar code quality and environmental conditions.

7.2. Available Laser Engines

The BLUETOOTH SCANNER can be equipped with an N4313, SE965HP or SE655 laser/CCD engine (depending on the configuration purchased).

7.3. Depth of Field

Depth of Field for N4313

	Typical			Guaranteed		
Symbology	Near Distance (in/mm)	Far Distance (in/mm)	Delta (in/mm)	Near Distance (in/mm)	Far Distance (in/mm)	Delta (in/mm)
4 mil Code 39	4.3 (109)	5.9 (149)	1.6 (40)	4.6 (117)	5.6 (141)	0.9 (24)
5 mil Code 39	3.7 (94)	7.9 (201)	4.2 (107)	4.2 (106)	7.5 (190)	3.3 (84)
7.5 mil Code 39	2.7 (68)	12.0 (305)	9.3 (237)	3.6 (92)	11.1 (281)	7.4 (189)
10 mil Code 39	2.2 (55)	15.0 (381)	12.8 (326)	2.6 (66)	14.6 (371)	12.0 (305)
13 mil 100% UPC	2.0 (52)	18.0 (457)	16.0 (405)	2.0 (52)	18 (457)	15.9 (405)
15 mil Code 39	1.77 (45)	21.5 (547)	19.73 (502)	1.77 (45)	21.5 (547)	19.8 (502)
20 mil Code 39	1.7 (43)	26.8 (680)	25.1 (637)	1.7 (43)	26.8 (680)	25.1 (637)
40 mil Code 39	3.4 (85)	35.1 (891)	31.7 (806)	3.8 (96)	29.1 (734)	25.3 (642)
55 mil Code 39	4.7 (119)	38.4 (976)	33.7 (857)	5.3 (135)	34.3 (872)	29 (737)

Depth of Field for SE965HP

Symbol Density/ Bar Code Type/ W-N Ratio	Bar Code Content/	Typical Working Ranges		
W-N Ratio	Contrast (Note 1)	Near	Far	
5.0 mil	1234	1.2 in	7.7 in	
Code 128	80% MRD	3.05 cm	19.56 cm	
5.0 mil	ABCDEFGH	1.2 in	12.5 in	
Code 39; 2.5:1	80% MRD	3.05 cm	31.75 cm	
7.5 mil	ABCDEF	1.1 in	18.5 in	
Code 39; 2.5:1	80% MRD	2.79 cm	46.99 cm	
10 mil	1234	1.2 in	19.0 in	
Code 128	80% MRD	3.05 cm	48.26 cm	
		Note 3		
13 mil	12345678905	1.6 in	27.0 in	
100% UPC	80% MRD	4.06 cm	68.58 cm	
15 mil	1234	1.0 in	29.5 in	
Code 128	80% MRD	2.54 cm	74.93 cm	
		Note 3		
20 mil	123	1.4 in	52.0 in	
Code 39; 2.2:1	80% MRD	3.56 cm Note 3	132.08 cm	
			400.0	
55 mil	CD	3.4 in	100.0 in	
Code 39; 2.2:1	80% MRD	8.64 cm Note 3	254.00 cm	
100 mil	123456	2 ft	17 ft	
Code 39; 3.0:1 reflective	123456 80% MRD	2π 60.96cm	17 π 518.16 cm	
5545 00, 0.0. I Tellective	Solo mite	Note 3	0.00.000	

Notes:

1. Contrast measured as Mean Reflective Difference (MRD) at 650 nm.

 Working range specifications at ambient temperature (23°C), photographic quality symbols. Pitch=10°, roll=0°, skew=0°, ambient light < 150 ft-candles using Symbol or equivalent decoder.

3. Dependent on width of bar code.

4. Distances measured from front edge of chassis.

Depth of Field for SE655

Barcode	Distance	Typical	Guaranteed
Code 128	Near	2.75 in. / 70 mm	3.90 in. / 99 mm
5mil	Far	8.25 in. / 210 mm	6.25 in. / 159 mm
Code 39	Near	2.25 in. / 57 mm	3.15 in. / 80 mm
5mil	Far	9.75 in. / 248 mm	8.00 in. / 203 mm
Code 39	Near	1.50 in. / 38 mm	2.50 in. / 64 mm
7.5mil	Far	12.75 in. / 324 mm	10.25 in. / 260 mm
100% UPC-A	Near	2.00* in. / 51 mm	2.25 in. / 57 mm
UFC-A	Far	15.75 in. / 400 mm	11.00 in. / 279 mm
Code 39 20mil	Near	1.50* in. / 38 mm	2.00* in. / 51 mm
201110	Far	24.0 in. / 610 mm	18.25 in. / 464 mm

Notes:

1. Distances are measured from the front flange surface of the image lens.

2. The distances marked with asterisk (*) are a result of the field of view (FOV) limitation.

3. Image signal should be with "Raw" option checked

4. Successful decoder criteria: Less than 250ms decode time, maximum of two attempts.

5. Symbols are to be mounted with a pitch of 15 +/- 3 degrees away from the engine.

6. Maximum allowable roll angle of symbols relative to the engine mounting base plane is +/- 3.0 degrees.

7.4. Supported Bar Code Symbologies

Symbology Type	Symbology Name	
N4313 Symbologies	CODABAR, CODE 39, CODE 93, STRAIGHT 2 OF 5 IATA, CODE 11, GS1 128, UPC A, EAN 8, MSI, GS1 DATABAR OMNIDIRECTIONAL GS1 DATABAR EXPANDED, TRIOPTIC	INTERLEAVED 2 OF 5, NEC 2 OF 5, STRAIGHT 2 OF 5 INDUSTRIAL, MATRIX 2 OF 5, CODE 128, TELEPEN, UPC E EAN 13, PLESSEY, GS1 DATABAR LIMITED, CHINA POST,
SE965HP Symbologies	UPC A, UPC E1, EAN 13, CODE 128, ISBT 128,	UPC E, EAN 8, BOOKLAND EAN, GS1 128(EAN 128), CODE 39,

•	CODE 93,
	INTERLEAVED 2 OF 5
DISCRETE 2 OF 5,	CODABAR,
MSI,	GS1 DATABAR 14,
GS1 DATABAR LIMITED,	GS1 DATABAR EXPANDED,
UCC COUPON,	CHINESE 2 OF 5,
MATRIX 2 OF 5	KOREAN 3 OF 5
UPC A,	UPC E,
UPC E1,	EAN 8,
EAN 13,	BOOKLAND EAN,
CODE 128,	GS1 128(EAN 128),
ISBT 128,	CODE 39,
TRIOPTIC CODE 39,	CODE 93,
CODE 11,	INTERLEAVED 2 OF 5
DISCRETE 2 OF 5,	CODABAR,
MSI,	GS1 DATABAR 14,
GS1 DATABAR LIMITED,	GS1 DATABAR EXPANDED,
UCC COUPON,	CHINESE 2 OF 5,
MATRIX 2 OF 5	
	GS1 DATABAR LIMITED, UCC COUPON, MATRIX 2 OF 5 UPC A, UPC E1, EAN 13, CODE 128, ISBT 128, TRIOPTIC CODE 39, CODE 11, DISCRETE 2 OF 5, MSI, GS1 DATABAR LIMITED, UCC COUPON,

7.5. Decoding a Bar Code

1. Position the Bluetooth scanner over one of the Sample Bar Codes on paragraph 7.8.

A range of 4-10 inches (10-25 cm) from the bar code is recommended.

- 2. Project the aiming beam by pressing and holding the **Scan** key. The Scan LED lights red.
- 3. Center the aimer beam horizontally over the bar code and highlight all of the vertical bars of the bar code. The aiming pattern is smaller when the terminal is held closer to the code and larger when the terminal is held farther from the code. Symbologies with smaller bars or elements (mil size) should be read closer to the unit whereas larger bars or elements (mil size) should be read farther from the unit.
- 4. When the bar code is successfully decoded, the decode LED lights blue and the terminal beeps.

7.6. Sample Bar Code

You can use the following bar code to verify decoding:



7.7. Scanning Positions

The aiming beam must be aimed across the entire bar code to provide you with the best scanning performance. The aiming pattern is smaller when the terminal is held closer to the code and larger when the terminal is held farther from the code. Symbologies with smaller bars or elements (mil size) should be read closer to the unit whereas larger bars or elements (mil size) should be read farther from the unit.



8. Bluetooth

Bluetooth wireless technology is a short-range communications technology to connect portable and/or fixed devices while maintaining high levels of security.

8.1. Enabling the Bluetooth

- 1. Choose "Bluetooth" -> "BT Service" -> Power in the main menu
- 2. Choose "Enabled" and Save

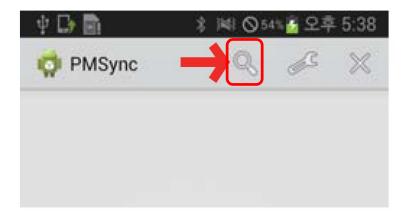
8.2. Pairing Bluetooth Devices

Connecting Bluetooth devices usually requires them to be paired; the same pass key must be entered for each device.

- 1. Enter User Settings -> Connect Mode
- 2. Choose "Pairing"
- 3. Search the BT device from the smartphone and connect

9. Connecting PM3 with Smartphone

- 1. Start Bluetooth pairing from PM3 device (Refer to 8.1 above)
- 2. Search the device by selecting the button below



NOTE: Area coverage and Bluetooth radio performance may vary, due to environmental conditions or interference caused by other devices (microwave ovens, radio transmitters, etc.).

3. Select a device from the list and connect.

