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PANMOBIL[®]
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SCANNDYgun Manual



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Warranty

For the complete PANMOBIL hardware product warranty statements go to:
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PRODUCT REFERENCE

SCANN DYGun II

Introduction

SCANN DYbasic series devices captures and stores barcode and RFID data for variety of uses, and transmits barcode and RFID data to a host via USB connection, Bluetooth Wi-Fi ore GPRS. This document provides basic instructions for using the SCANN DYgun series device.



No.	Description	Function
1	Left LED (green) Left LED (red)	Green LED: Lights up green when the device is powered ON. Is flashing green (2 sec.) when the battery is low (Other function can be defined by API) Red LED: Lights up red if connect to ext. power for the time the battery is charging (Docking station or direct connect cable)
2	Right LED (yellow) Right LED (blue)	Yellow LED: Lights up yellow when a Barcode or RFID Tags was read successfully. Is flashing yellow (500ms) when connected to USB (USB Memory stick mode) (Other function can be defined by API) Blue LED: Bluetooth: Lights up blue when Bluetooth connection is established Wi-Fi: Flashing (every 1 sec.) while connecting to a Wi-Fi network. Flashing (every 5 sec.) when Wi-Fi is connected (Other function can be defined by API)
3	Rubber protector	Protective rubber covers to protect the device against splash, dust and drops It is recommended to not use the device without the rubber protector
4	Full colour OLED Display	Full colour OLED Display 1.45" 160 x 128
5+6	Hidden Reset key	The hidden system reset keys are located in the upper left and right corner of the rubber keypad. Press the rubber keypad on both corners at the same time to reset the device. NOTE! A system reset can effect in loss of data and/or configuration settings
7	Navigation key LEFT	Press the left navigation key to move the cursor to the left side (Other function can be defined by SFL or API)
8	Navigation key UP	Press the up navigation key to move the cursor up (Other function can be defined by SFL or API)
9	Navigation key RIGHT	Press the right navigation key to move the cursor to the right side (Other function can be defined by SFL or API)
10	Cancel/Clear key	Press the Cancel/clear key to cancel a function or to clear keyboard inputs

		[Other function can be defined by SFL or API]
11	Trigger key	Press the Trigger key to start the barcode or RFID reader [Other function can be defined by SFL or API]
12	ON/OFF OK key	Default: ON/OFF button When OFF: press the OK button short to boot the device When ON: press the OK button for 3 sec. to shut the device OFF When ON: press the OK button short to confirm messages or inputs [Other function can be defined by SFL or API]
13	Navigation key DOWN	Press the down navigation key to move the cursor down [Other function can be defined by SFL or API]
12+13	Launcher Mode	Fall back Configuration mode Follow the instructions below to set the device into the launcher mode <ol style="list-style-type: none"> 1. Switch Off the device 2. Press and hold key 13 (DOWN) and key 12 (OK) until you hear a beep. (this can take several seconds) 3. Connect the device to a PC via USB 4. The device will be mounted as a removable drive "SCANNDY" 5. You can now modify and save the settings 6. Press key 11 (Trigger) until you hear a beep The device will restart with the new settings
14	Alpha/numerical keys	Press this keys short to input digits or alphabetical characters [Other function can be defined by SFL or API]
15	Dot / numeric/alpha toggle key	Press this key short to input the dot character Press this key for 1 sec. to switch from numeric to alpha mode and vice versa [Other function can be defined by SFL or API]
16	Comma / Function key	Press this key short to input the comma character Press this key for 1 sec. to switch to switch to function key mode and vice versa [Other function can be defined by SFL or API]

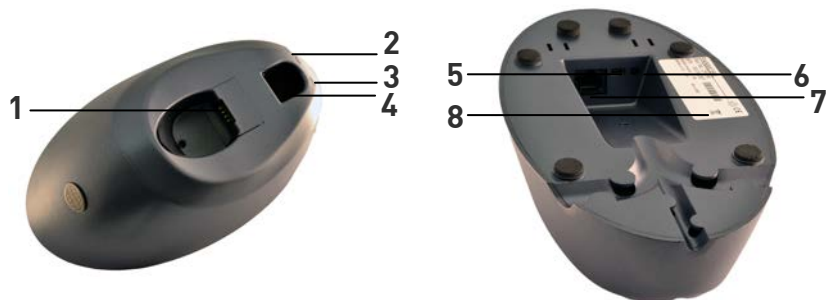


No.	Description	Function
17	Direct connect interface	Interface to connect the direct connect cable Note! The interface can be USB or RS232. Please read the product label to see the interface type Do not connect an USB configured device to a RS232 cable and vice versa. This can damage components inside the device
18	Main communication interface	Communication and battery charging interface
19	Battery cover	Open the battery cover to access the battery
20	Battery cover release button	Turn the battery cover release button counter-clockwise by 45° to remove the battery and access the battery
21	Battery contacts	Battery contacts for charging the Li-Ion battery TAKE CARE TO NOT DAMAGE THIS PINS WHEN INSERTING THE RECHARGEABLE BATTERY
22	Tec Pack Interface	Interface to connect additional modules for SCANNDYbasic devices



No.	Description	Function
23	RFID Good read LED	Lights red when a RFID Tags was read successfully
24	Serial number label	Unique device serial number
25	Protection glass for barcode and RFID reader	Keep this glass free of dirt and scratch to have the best reader performance.
26	Barcode reader	1D Laser Barcode reader or 1D/2D Code Imager
27	Long Range RFID Antenna (option)	Antenna for Long Range RFID reader/writer

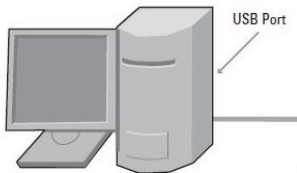
SCANNYGUN DOCKING STATION



Nr.	Description	Function
1	Communication and battery charging interface	USB Host interface Optional RS232 interface Device battery charging interface
2	Power LED (green) Charging LED (spare battery) (red)	constant green when the docking station is powered ON constant red while spare battery is charging inside the spare battery charging slot (4)
3	Blue LED	Bluetooth connection LED Constant blue when a device is connect via Bluetooth
4	Spare battery charging slot	Charges the spare battery
5	Mini-USB Interface	Mini USB to PC interface
6	Connector for power supply	Connector for power supply. DO NOT USE OTHER POWER ADAPTERS THAN THE ORIGINAL FROM PANMOBIL!!
7	Main communication	RJ45 main communication interface. Please verify the product label to learn about the interface type
8	Product Label	Product and device information label

CHARGING THE BATTERY

Before the first operation, the main battery should be charged for minimum 5 hours. The red LED (1) lights solid red as long as the battery is charging. When the battery is fully charged the red LED (1) turns off.



1. Place the Scandy device into the docking station
2. Plug the power adapter into the wall outlet
3. The green LED (2) on the docking station will light solid green
4. The red LED (1) on the Scandy device will light solid red as long as the battery is charging
5. The battery is fully charged when the red LED (1) on the Scandy device turns off

A full recharge of the battery takes approximately 4 hours.

SCANNING BARCODE (1D Laser)

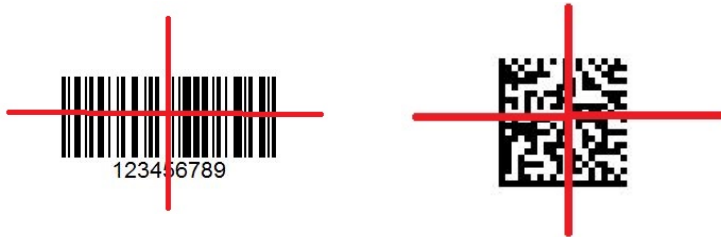
1. Aim the SCANNDYgun at the Barcode
2. Press the Trigger button (11)
3. Ensure the scan line crosses every bar and space of the Barcode



The device beeps and the right LED [2] turns green to indicate a successful decode. See the SFL script or API reference guide to learn how to define beeps and vibrate alerts.

SCANNING BARCODE (1D/2D Imager)

1. Aim the SCANNDYgun at the Barcode
2. Press the Trigger button (11)
3. The device decodes the code nearest to the cross centre



The device beeps and the right LED (2) turns green to indicate a successful decode. See the SFL script or API reference guide learn how to define beeps and vibrate alerts.

SCANNING RFID

1. Aim the SCANNDYgun at the RFID Tag
2. Make sure the Tag is within the reader field
(The reading distance from the Scannidy to the Tag depends on the Tag size and the environment)
3. Press the Trigger button (11) to read data from the RFID Tag



The device beeps and the right LED (2) turns green to indicate a successful decode. See the SFL script or API reference guide learn how to define beeps and vibrate alerts.

BLUETOOTH CONNECTION

Pairing

For Bluetooth enabled devices to pair to a Bluetooth enabled host.

Note!

The following description is only valid for devices with factory installed software.

Devices with custom software can behave different, depending on the programming.

1. Connect the device to the host using the USB port and brows the drive "Scandy". And search for the file *.sfl
2. Open the file *.sfl with the text editor and verify the setting for the Bluetooth profile

Example for Bluetooth SPP (SerialPortProfile)

```
config {  
  [uni]  
  outmode=btser  
}
```

Example for Bluetooth HiD (HumanInterfaceDevice)

```
config {  
  [uni]  
  outmode=bthid  
}
```

Set the Bluetooth profile supported by the host or required by the application.

- **Serial Port Profile (SPP)** - The scanner connects to the host via Bluetooth and emulates a serial connection. The scanner accepts an incoming connection requested from a Bluetooth host.

- **Bluetooth Keyboard Emulation (HID)** -

The scanner connects to the host via Bluetooth and emulates a keyboard. The scanner accepts an incoming connection requested from a Bluetooth host.

(See the SFL reference manual for further information)

3. Save the settings that have been made and open the file “config.ini” to verify the general Bluetooth settings.

Example:

[bt]

devname=SCANNDY808240

masterkey=1234

slavekey=1234

security=0

available=0

dirty=0

defaddress=000000000000

address=000000000000

SPPchannel=3

For further information please refer to the config_ini reference guide

4. Save the settings and disconnect the device from the PC
On the host PC, launch the third party Bluetooth pairing application and place the application into discover Bluetooth device mode.
5. Select the device with the device name configured in the file config.ini from the discovered device list. The Bluetooth application may prompt you to scan a passkey it generated, or for you to create and then scan a pin.
6. If the Bluetooth application prompts you to generate a pin, enter the configured Bluetooth pin
DEFAULT: 1234
7. If the Bluetooth application prompts you to enter the pass key it generated, scan *numeric barcodes on page 12* and confirm by scanning ENTER
8. The right LED (2) lights constant blue as long as the device is connected

Note! The Bluetooth configuration can be seen in the device system menu alternatively. Please read the system menu description for Bluetooth settings on page 22.

NUMERIC BARCODES FOR BLUETOOTH PAIRING



1



2



3



4



5



6



7



8



9



0



ENTER

Wi-Fi CONNECTION

For Wi-Fi enabled devices to connect to a host.

Note!

The following description is only valid for devices with factory installed software.

Devices with custom software can behave different, depending on the programming.

1. Connect the device to the host using the USB port. Browse the drive "Scandy". and search for the file *.sfl
2. Open the file *.sfl and make sure the output mode is set for Wi-Fi

Example for Wi-Fi output

```
config {  
  [uni]  
  outmode=wlan  
  outproto=plain  
}
```

(See the SFL reference manual for further information)

3. Save the settings that have been made and open the file "config.ini" to verify the general Wi-Fi settings.

Example:

```
[wifi]  
host=127.0.0.1  
port=80  
dhcp=1  
ip=  
netmask=  
gateway=  
crypt=2  
ssid=ssid  
wepkey=  
wpapsk=
```



```
mode=2
region=48
channel=0
bssid=
```

For further information please refer to the config_ini reference guide.

4. Save the settings and disconnect the device from the PC
5. The right LED (2) flashes blue (every 1 sec.) for the time the device is trying to connect to the wireless network and to the host
6. The right LED (2) flashes blue (every 5 sec.) for the time the device is connected

**The Wi-Fi configuration can be seen in the device system menu alternatively.
Read the system menu description for Wi-Fi settings on page 26.**

Transmitting Barcode and/or RFID data to a host

Batch mode

All Barcode and RFID data scanned in batch mode are saved in the file "Output.txt" on the removable drive "Scandy". Connect the device to the host PC via USB and use the Windows-Explorer to navigate to the device "SCANNDY". Copy the file "Output.txt" to the host.

To clear the data from the device, delete the file "Output.txt"

Transmitting data from a Bluetooth or WIFI device

When the scanner is paired to a host via Bluetooth, data transmits to the host after each scan and is not stored on the scanner unless the scanner moves out of range of the host. For out of range usage you can configure the device to either store the data in a cache memory or do not allow scanning.

If the device was configured to store the out of range captured data, it stores the data in a file Cache.txt. After reconnect it transmits all cached data to the host.

(See the SFL reference manual to see how to set the device to cache out of range data)

Bidirectional communication for Bluetooth and WIFI connected devices

For applications that require bidirectional communication between the device and the host PANMOBIL devices support an embedded communication protocol SCOMP and REMOTE mode.

(See the SCOMP reference manual to see how to set the device to use SCOMP protocol and/or REMOTE mode)

Note!

If the device is set to use SCOMP communication protocol, it is mandatory for that the host application to support SCOMP protocol, too.

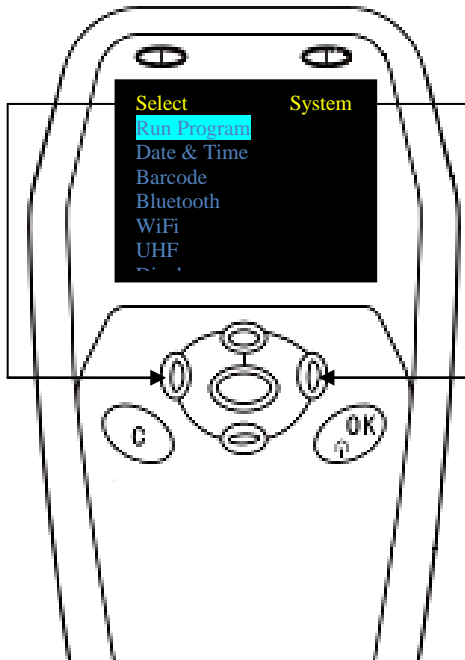
SCANNDY SYSTEM MENU

Note!

The following description is only valid for devices with factory installed software. Devices with custom software can behave different, depending on the programming.

From the application main menu press the key "C" to enter the SCANNDY system menu. To protect the system settings from unauthorized access, you will be prompted to enter a password.

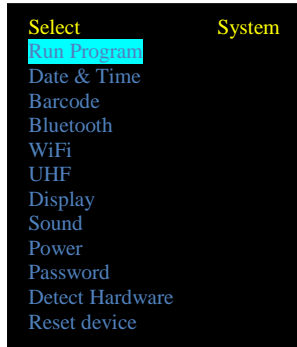
In factory default the system menu password is left blank
Simply press the key OK if you are prompted to enter the password.



Use the up (8) and down (13) navigation keys to highlight a menu item.
Use the navigation key left (7) to select a menu item or right (9) to exit a sub menu.

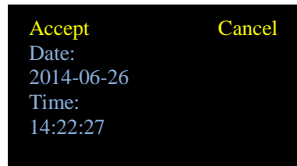
Menu item RUN PROGRAM

Highlight the menu item "Run Program" and press the left (7) navigation key to exit the system menu and return to the installed application.



Menu item DATE & TIME

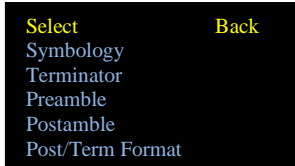
Highlight the menu item Date & Time and press the left (7) navigation key to enter the Date & Time settings.



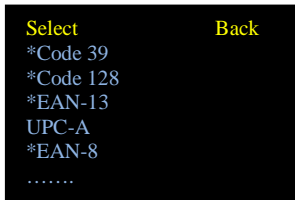
Simply type the date and time by using the numeric keys (14) the entered key will overwrite the existing entry. Press the left (7) navigation key to accept and save the entered Date & Time or press the right (9) navigation key to cancel the input and return to the main menu.

Menu item Barcode

Highlight the menu item Barcode and press the left (7) navigation key to enter the Barcode settings.



Highlight the Barcode menu item symbology and press the left (7) navigation key to enter the symbology menu.

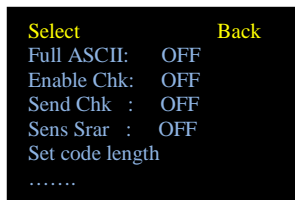


Enabled Barcode symbology are marked with the character “*”

To disable or enable Barcode symbology, highlight the corresponding symbology and press the button Trigger (11)

To enter the Barcode symbology settings, highlight the corresponding symbology and press the left (7) navigation key.

Example for Code39 settings:



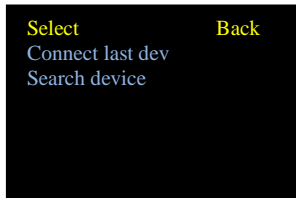
To change the barcode symbology configuration, highlight the corresponding menu item and press the left (7) navigation key. The modified configuration will be saved automatically when pressing the right (9) navigation key to exit the sub menu. Use the same procedure for all Barcode symbology settings.

Menu item Bluetooth

Highlight the menu item Bluetooth and press the left (7) navigation key to enter the Bluetooth settings.

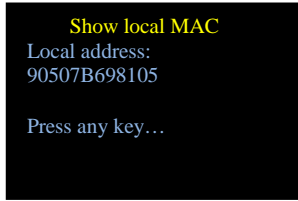


Highlight the menu item Bluetooth and press the left (7) navigation key to enter the connection selection.



Highlight the menu item "Connect last dev" to reconnect to the last paired device. Select "Search device" to search devices in range. The Scandy device will show a list with devices in range by device name. Highlight and select the device you want to connect to.

Select the menu item "Show Local MAC" from the Bluetooth menu to see the Bluetooth MAC address of the Scandy device. The local MAC address is read only and cannot be changed.



Highlight the menu item "Connect last dev" to reconnect to the last paired device.

Select the menu item "Set Remote MAC" from the Bluetooth menu to set the Bluetooth MAC address of the device you want the Scanny to connect to and enter the MAC address by using the numeric keypad. For alphabetical characters press and hold the alpha/numeric toggle key (15) for 1 sec. to toggle between alpha and numeric input mode.



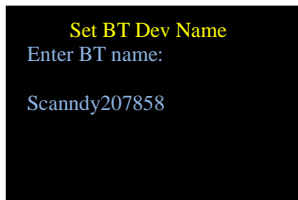
Press the OK key (12) to save the entered address and return to the Bluetooth main menu.

Select the menu item "Set Device Name" from the Bluetooth menu to set the Bluetooth Name for the Scanny device. This is the name to identify the Scanny device when searching the Bluetooth neighbourhood from a distant device. Enter the device name for the Scanny by using the alpha/numeric keypad (14). For alphabetical characters press and hold the alpha/numeric toggle key (15) for 1 sec. to toggle between alpha and numeric input mode.

Note!

The factory default device name is a combination of the device name and device serial number.

Example: Scanny207858

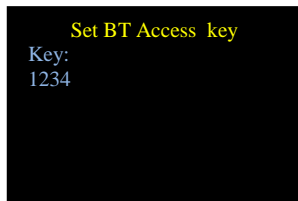


Press the OK key [12] to save the entered device name and return to the Bluetooth main menu.

Select the menu item "Master Access key" from the Bluetooth menu to set the Bluetooth Access key for connections initiated by the Scandy device configured for Master mode. The Scandy device will prompt the distant device to confirm this connection key. Enter the access key by using the numeric keypad. For alphabetical characters press and hold the alpha/numeric toggle key [15] for 1 sec. to toggle between alpha and numeric input mode.

Note!

The factory default Master Access key is 1234.

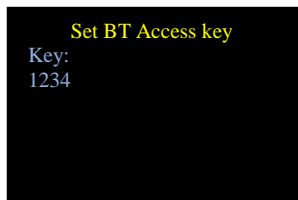


Press the OK key [12] to save the entered key and return to the Bluetooth main menu.

Select the menu item "Slave Access key" from the Bluetooth menu to set the Bluetooth Access key for incoming connections initiated by a distant device. This is the access key the Scandy device must confirm when it is prompted by the distant device. Enter the access key by using the numeric keypad. For alphabetical characters press and hold the alpha/numeric toggle key [15] for 1 sec. to toggle between alpha and numeric input mode.

Note!

The factory default Slave Access key is 1234.



Press the OK key [12] to save the entered key and return to the Bluetooth main menu.

Select the menu item "Set Security Status" from the Bluetooth menu to set the Bluetooth security ON or OFF.

Note!

In factory default the security status is set to OFF.



Press the left navigation key (7) to change the settings and press the OK key (12) to save the entered status and return to the Bluetooth main menu.

Select the menu item "Reset BT" from the Bluetooth menu to reset Bluetooth to factory default.

Note!

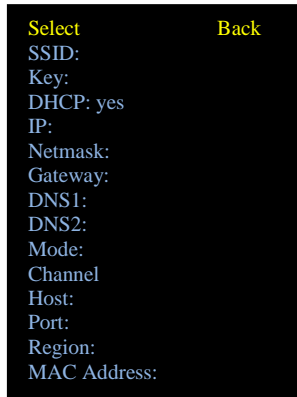
All Bluetooth settings will be reset to factory default!



Press the OK key (12) to reset the Bluetooth settings or any other key to return to the Bluetooth main menu.

Menu item Wi-Fi

Highlight the menu item Wi-Fi and press the left navigation key (7) to enter the Wi-Fi settings.



SSID: Enter the SSID of the wireless network you want the device to connect to.

Key: Enter the password for the selected network

DHCP: Set DHCP to YES to assign an IP Address from the DHCP Server
(IP, Netmask, Gateway, DNS1 and DNS2 can be left blank)
Set DHCP to NO to use a specific IP Address
(IP, Netmask, Gateway, DNS1 and DNS2 must be specified)

Mode: Set the wireless mode
Set the mode to Ad-Hoc to connect to another wireless device
(Channel must be specified)
Set the mode to Infrastructure to connect to a wireless network
(Channel must not be specified)

Host: Enter the IP Address or the name of the host to which the device should connect to

Port: Enter the host port from the host to send and receive data

Region: Enter the region where the device is used

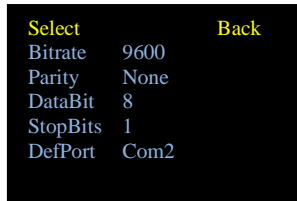
Press the right navigation key (9) to save the settings and return to the system main menu.

Menu item Serial

Highlight the menu item Serial and press the left (7) navigation key to enter the Serial connection settings.

Note!

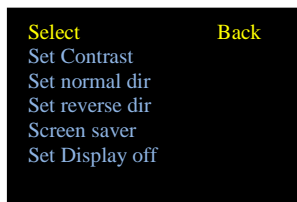
The settings in this section are only valid for Scannyd devices with serial RS232 Interface.



Highlight the menu item and set the parameters from the parameter list according to the requirements of the receiving application. Press the right navigation key (9) to save the settings and return to the main menu.

Menu item Display

Highlight the menu item Display and press the left (7) navigation key to enter the Display settings.



Highlight the menu item "Set Contrast" and press the left navigation key (7) to set the Display contrast. Use the up key (8) to increase the contrast. Use the down key (13) to decrease the contrast. Press the OK key (12) to save the settings and return to the Display menu.

Highlight the menu item "Set normal dir" and press the left navigation key (7) to set the Display to normal direction.

Highlight the menu item "Set reverse dir" and press the left navigation key (7) to set the Display to reverse direction.

Highlight the menu item "Screen saver" and press the left navigation key (7) to set the delay for the screen saver if the Display has not been used for a certain time. Input a value in seconds.

Highlight the menu item "Set Display Off" and press the left navigation key (7) to set the delay for the Display to switch off if it has not been used for a certain time. Input a value in seconds.

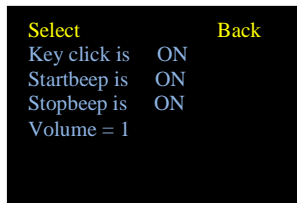
Note!

In order to ensure a long Display life time, it is recommended to use the screen saver or Display Off function to protect the OLED Display against burn-in

Press the right navigation key (9) to save the settings and to return to the main menu.

Menu item Sound

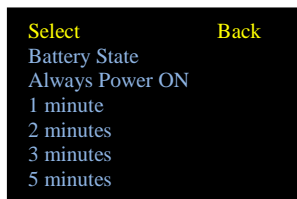
Highlight the menu item "Sound" and press the left (7) navigation key to enter the Sound settings.



Highlight a menu item and press the left navigation key (7) to change the settings. Press the right navigation key (9) to save the settings and return to the main menu.

Menu item Power

Highlight the menu item "Power" and press the left (7) navigation key to enter the Power settings. To see the battery status:



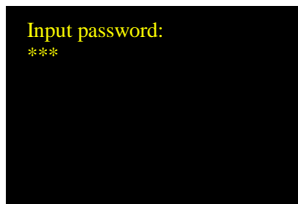
Highlight a menu item and press the left navigation key [7] to change the settings. Press the right navigation key [9] to save the settings and return to the main menu. Select from the parameter list the time in minutes after which the device should shut down automatically if it was not used for a certain time.

Note!

In order to achieve a long battery runtime, it is recommended to use the auto shutdown function.

Menu item Security

Highlight the menu item "Security" and press the left [7] navigation key to assign a system menu protection password.



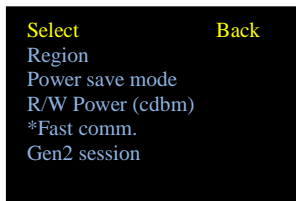
Note!

The password may contain digits only. Make sure to use a combination of digits to which you can remember later. In the factory default the System password is left blank. Simply confirm with OK key [12] if you are prompted to enter the password.

Press the OK key [12] to save the entered password or press the "C" key to cancel and return to the main menu.

Menu item UHF Settings

Highlight the menu item "UHF Settings" and press the left [7] navigation key to enter the configuration for the UHF RFID reader/writer.



Region

Highlight the menu item "Region" to set the frequency for the region the device is used.

Note!

Changing the frequency (Region) may have influence on the UHF reading/writing performance because of the mismatch with the reader antenna.

Press the left navigation key (7) to save the settings and return to the UHF Setting menu or press the right navigation key (9) to cancel.

Power save mode

Highlight the menu item "Power save mode" and press the left navigation key (7) to change the settings. Select the power save mode value and press the left navigation key (7) to save the settings and return to the UHF Setting menu, or press the right navigation key (9) to cancel.

R/W Power

Highlight the menu item "R/W Power (cdbm) and press the left navigation key (7) to change the Read/Write power of the UHF reader/writer module. The power can be set from 1dBm to 23dBm

Input the value as follows:

Value in dBi * 100

Example: 18dBi * 100 input = 1800

Press the OK key (12) to save then settings and return to then UHF Setting menu.

Fast comm

Highlight then menu item "Fast comm." And press then left navigation key (7) to select or unselect then fast communication option.

Gen2 session

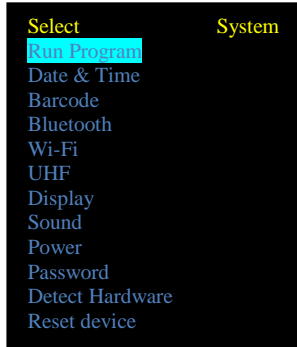
Highlight the menu item "Gen2 session" and press then left navigation key (7) to setup the session options.

By setting the session ID, you can optimize the communication between the reader and the tag. This setting can very helpful if several different Tags and Tag populations are in the reading field are.

For further information about Gen2 Sessioning, please refer to the EPC GEN2 Tag protocol description

Press then right navigation key (9) to save the settings and return to the main menu.

Highlight the menu item “Run program” and press the left navigation key (7) or press the right navigation key (9) to leave the system menu and start the installed application.



Troubleshooting

Problem	Possible Solution
Device does not power on	<ul style="list-style-type: none"> - Make sure the battery is inserted correctly - Make sure the battery is charged
Laser comes on but device does not decode barcode	<ul style="list-style-type: none"> - Ensure the device is configured to read the type of code being scanned - Ensure the code is not defaced - Move the device closer to or further from the code

ADVANCED DEVICE CONFIGURATION

The Scandy config.ini file contains the most common device settings.

For information about the configuration for options like Bluetooth, Wi-Fi, UHF RFID as well as Barcode configuration please refer to the document Config_ini.pdf

REGULATORY INFORMATION

Interference statement:

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Modification statement:

The FCC requires the user to be notified that any changes or modifications made to this device and are not explicit approved by advanced PANMOBIL systems GmbH & Co. KG, may void the user's authority to operate the equipment.

Class B digital devices regulatory notice:

This equipment has been tested and confirmed to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio or television technician for help

Wireless notice

This product emits radio frequency energy, but the radiated output power of this device is far below the FCC radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact with the antenna during normal operation is minimized. The system antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

EU:

This equipment is intended to be commercialized in all the countries of the European Union and there is no commercialization or operational restrictions in any of the countries.

Hereby, advanced PANMOBIL systems GmbH & Co. KG declares that this Bluetooth barcode scanner is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC

European countries, where this equipment can be used are : Austria (AT) - Belgium (BE) - Bulgaria (BG) - Switzerland/Liechtenstein (CH) - Cyprus (CY) - Czech Republic (CZ) - Germany (DE) - Denmark (DK) - Estonia (EE) - Finland (FI) - France (FR) - Greece (GR) - Hungary (HU) - Ireland (IE) - Iceland (IS) - Lithuania (LT) - Luxembourg (LU) - Latvia (LV) - Malta (MT) - Netherlands (NL) - Norway (NO) - Portugal (PT) - Romania (RO) - Sweden (SE) - Slovenia (SI) - Slovak Republic (SK) - United Kingdom (UK)-Italy (IT)-Poland (PO)-Spain (SP).

HEALTH AND SAFETY RECOMMENDATIONS



Ergonomic Recommendations

Caution: In order to avoid or minimize the potential risks of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Keep Objects that are used frequently within easy reach
- Reduce or eliminate repetitive motion
- Reduce or eliminate excessive force
- Maintain a natural position
- Improve work procedures
- Perform tasks at correct heights
- Provide adjustable workstations
- Provide adequate clearance
- Reduce or eliminate direct pressure
- Reduce or eliminate vibration
- Provide a suitable working environment

Vehicle Installation

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. You should consult the manufacturer of any equipment that has been added to your vehicle.

An air bag inflates with great force. DO NOT place objects in the area over the air bag or in the air bag deployment area. Improperly installed wireless equipment could result in serious injury when the air bag inflates.

Position your device in easy reach. Make sure your device is accessible without removing your eyes from the road.

Safety on the Road

Do not take note or use the device while driving. When driving a car, driving is your first responsibility – GIVE FULL ATTENTION TO DRIVING –

Warnings for Use of Wireless Devices

Please observe all warning notices with regard to the usage of wireless devices.

Potentially Hazardous Atmospheres – Vehicle Use

You are reminded to observe restrictions on the use of radio devices in fuel depots, chemical plant and areas where the air contains chemical or particles such as gain, dust or metal powders and any other area where you would be advised to turn off your vehicle engine.

Safety in Aircrafts

Switch off your wireless device whenever you are instructed to do so by airport or airline staff. Consult airline staff and ask for its use in flight.

Safety in Hospitals

Wireless devices transmit radio frequency and may affect medical electrical equipment. Wireless devices should be switched off wherever you are requested to do so in hospitals or healthcare facilities to prevent interference with sensitive medical equipment.

Pacemakers

It is recommended by Pacemaker manufacturers to maintain a minimum of 15cm (6 Inches) between a handheld wireless devices and a pacemaker to avoid potential interference. These recommendations are consistent with independent research and recommendations by Wireless Technology Research.

Persons with Pacemakers:

- Should not carry the device in a breast pocket
- Should use the ear furthest from the pacemaker to minimize the potential of interference.

- Should ALWAYS keep the device more than 15cm (6 Inches) from their pacemakers when turned on.
- Turn OFF your device if you have any reason to suspect that interference is taking place.

Other Medical Devices

Please consult the manufacturer of the medical device to determine if the operation of your wireless product may interfere with the medical device.



RF Exposure Guidelines

Safety Information

Reducing RF-Exposure – Use properly

Only operate the device in accordance with the instructions supplied.

International

The device complies with international standards covering human exposure to electromagnetic fields from radio devices.

EU

To comply EU RF exposure requirements, this device must be operated in the hand with a minimum separation distance of 20cm from a person's body. Other operation configurations should be avoided.

US and Canada

To comply with FCC exposure compliance requirement, the antenna used for this transmitter must not be co-located or operating in conjunction with any other transmitter/antenna except those already approved in this filling.

Handheld Devices

To comply with FCC RF exposure requirements the device must be operated in the hand with a minimum separation distance of 20cm from a person's body. Other operation configurations should be avoided.



Laser Devices

Use of controls or adjustments or performance of procedures other than those specified herein may result in exposure to hazardous visible laser light. The laser scanner utilizes a low-power laser diode. Although staring directly at the laser beam momentarily causes no known biological damage, avoid staring into the beam as one would with any very strong light source, such as sunlight. Avoid that the laser beam hits the eye of an observer, even through reflective surfaces like mirrors, etc.

The following information is shown on the laser scanner device class label:



Limited Warranty

The manufacturer warrants that the product will be free of defects in material and workmanship for 2 years from the date of shipment. The manufacturer will, at its option, either repair, replace the defective products. Such repair or replacement shall be buyer's sole remedy in the event of manufacturer's breach of this limited warranty. Repaired or replaced parts or product may include new, reconditioned or remanufactured parts and equipment at manufacturer's option. All costs associated with shipment to manufacturer for warranty service, including but not limited to freight, duties, insurance and customs fees are buyer's responsibility. Manufacturer will pay the freight costs (duties, insurance, customs and any other fees) associated with the return shipment to buyer. The method of shipment will be at the manufacturer's discretion. Repair or replacement of any parts or equipment does not extend the period of warranty provided for herein.

THIS LIMITED WARRANTY IS MANUFACTURER'S ONLY WARRANTY.

MANUFACTURER DOES NOT GIVE WARRANTIES OF MERCHANTABILITY OR WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE.

To take advantage of this warranty, buyer should contact the seller not the manufacturer. The warranty set forth herein does not cover and manufacturer will have no obligations hereunder if any non-conformance is caused in whole or in part by; accident, transportation, neglect, misuse, alteration, modification, or enhancement of the products or incorporation, interfacing, attachment of any feature, program, or device to the products by a person or entity other than manufacturer, failure to provide a suitable installation environment, use of the products for other than the specific purpose for which the products are designed or any use of the product not in accordance

with the User Guide or other misuse or abuse of the product. The warranty does not cover problems linked to batteries.

Declaration of conformity

These devices have been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not in-stalled and used in accordance with the instructions, may cause harmful interference to radio communications. The appearance of disturbance in particular installations is not excluded. In the case that these devices should disturb your surroundings by their powering on and off, please inform advanced PANMOBIL systems GmbH & Co. KG immediately.

The user is cautioned that any changes or modifications not expressly approved by advanced PANMOBIL systems GmbH & Co. KG could void the user's authority to operate the equipment.

Consumer electronics

These devices have been tested and found to comply with the limits for class B digital devices, pursuant to the CE EMC directive.

For more information, please contact us at:

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