

Android Barcode Scanner

Easy Setup Guide



Scan right, Spend light

AS01

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Scan the QR code or visit the link below to access user manuals in other languages.

User manuals included (German, French, Spanish, Italian)



Deutsches Benutzerhandbuch
Manual de usuario en español
Manuel d'utilisation en français
Manuale dell'utente in italiano

1.0 Packing Open and Installation

1.1 What's in the Box



Figure 1-1

No.	Unpack	No.	Unpack
1	Device	6	Lanyard
2	Battery	7	Hand Strap (Optional)
3	USB Cable	8	Pistol (Optional)
4	Charger	9	MUNBYN Manual
5	Protective Film	10	Unboxing Card

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1.2 User Manual & SDK Download

You can download the AS01 SDK and multi-language user manuals by clicking the following link or scanning the QR code. User manuals included (Spanish, Italian, English, French, German): munbyn.biz/as01



Figure 1-2

Tips: You can also download the SDK in "About" in the M-Scan APP.

1.3 Appearance



Figure 1-3

No.	Key	Description
1/6	SCAN	The scanning button is located on both sides
2	Volume +/-	Volume up and down
3	Front camera	Front-facing 5-megapixel camera
4	Power	Locate on the right side, press the ON/OFF device
5	PTT key	Locate on the right side, its function can be defined by the software
7	Type-C	Charging or transferring data.
8	Rear camera	13-megapixel camera on the rear.
9	NFC	Read and write NFC tags.

1.4 Install the Battery, SIM card, and TF card

- As shown in the picture, use your index finger and thumb to squeeze the pick inwards at the same time to remove the back cover.



Figure 1-4

1. Install the NANO SIM or TF card in the direction shown in the icon.

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Figure 1-5

Tips: Install the SIM card/TF card after shutting down the device.

2. Please turn the battery lock to the open position, and then install the battery according to the figure below.



Figure 1-6

Note: After installing the battery, please turn the battery lock to the locked state.

1.5 Handle Installation

Pull out the spring retainer as shown below to secure the device to the handle.

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Figure 1-9

Figure 1-7



Figure 1-8



Note: The pistol is an optional accessory

2.0 M-Scan Settings

M-Scan is a mobile device data capture software that easily captures, processes, and transmits scan data. It easily integrates this data with the customer's existing applications, reducing the need for additional programming or modification of application code.

2.1 Basic Settings

2.1.1 Enable M-Scan

Make sure M-Scan is enabled before using the scanner. Generally, M-Scan is enabled by default to ensure that you can use it out of the box.

- First, open M-Scan and click on the settings gear in the upper right corner.

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Figure 2-1

- Confirm M-Scan is enabled.



Figure 2-2

Note: You can also reset M-Scan to its initial state from this page.

For example, if the scanning laser does not light up when you press the scan button, you can try clicking "Restore" to restore factory settings.



Figure 2-3

2.1.2 Using the Profiles

M-Scan functionality is based on profiles containing a group of scan-related settings.

M-Scan includes two preset profiles to support common or specific needs.

(1) Profile0: The default profile. It will automatically take effect for any application that has not been associated with an M-Scan profile. Usually, we can change the scan settings in this profile.

(2) Launcher: The profile is used when the device is on the home screen. This is enabled by default. If you disable it, you will not be able to use the scanner on the home screen.

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Figure 2-4

2.2 Barcode Input Settings

Click "Profile0 (Default)" to set the default profile. If you do not create a new profile and associate it with an application, the scan settings of "Profile0 (Default)" will take effect for all applications.

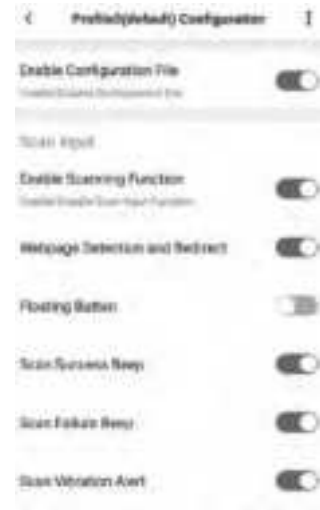


Figure 2-5

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- **Enable Configuration File:** The profile is enabled by default.
- **Enable Scanning Function:** The scanner is enabled by default.
- **Webpage Detection and Redirect:** Scanning a web link will automatically redirect you to that web page.
- **Floating Button:** The Floating Scan button will appear on the screen when enabled.
- **Scan Success Beep:** Select the scanning success prompt tone.
- **Scan Failure Beep:** Enable or disable the scan failure prompt sound.
- **Scan Vibration Alert:** Enable or disable the scanning vibration prompt.



Figure 2-6

- **Button Trigger Mode:** Select the key trigger method.
- **Character Set:** Character set selection, is automatically selected by default.
- **Set Scan Parameters:** Used to configure scanner-related parameters.
- **Decoders:** Common barcode settings. You can enable or disable a barcode.

Tips:

1. If a barcode cannot be scanned, you need to check if that type of barcode is enabled.



Figure 2-7

2. If you are experiencing missing numbers or characters after scanning a barcode, you can click on that barcode type to enable the Send Checksum setting. An example is the UPC barcode:

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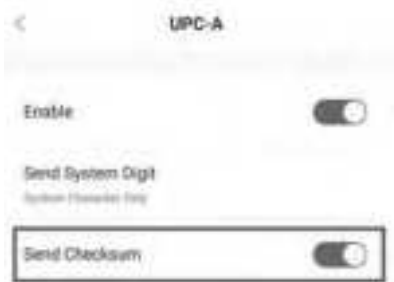


Figure 2-8

2.3 Barcode Processing Settings

After scanning the barcode data, M-Scan can process the data and output it according to the requirements. The data can be processed in the following three ways:



Figure 2-9

2.3.1 GS1 Formatting

GS1 barcode formatting: mainly for the processing of GS1 type barcodes, such as splitting barcodes, deleting GS characters, etc.

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Figure 2-10

The following table shows examples of GS1 barcode format settings:

	
00 000000 000000 000000 000000 000000	
Original Barcode Data	00 000000 000000 000000 000000 000000 00 00
Delete GS	00 000000 000000 000000 000000 000000
Remove GS + Segmented Decoding	00 000000 000000 000000 000000 000000
Delete GS + Segmented Decoding + Line Breaks	00 000000 000000 00 000000 00 000000 0000
Replace the GS Character with (00)	00 000000 000000 000000 000000 000000

2.3.2 Basic Data Formatting

Basic Data Formatting: perform simple processing operations on the data, such as adding prefixes and suffixes, deleting characters, etc.

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Figure 2-11

- **Add Prefix:** Adds numbers or characters in front of the barcode data.
For example: input "ABC", the original barcode is "12345", then the final output is "ABC12345".
- **Add Suffix:** Adds numbers or characters after the barcode data.
For example: if you input "ABC" and the original barcode is "12345", the final output will be "12345ABC".
- **Send TAB key:** The read data will be suffixed with a tab character "\t". When reading data in Excel, the cursor will automatically move to the next cell.
- **Send ENTER key:** Enable this setting and the output will wrap automatically. (Enabled by default)
- **Delete starting characters:** Enter the number of characters to delete from the beginning.
- **Delete Ending characters:** Enter the number of characters to delete from the end.
- **Delete Content:** It will delete the characters you entered.

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2.3.3 Advanced Data Formatting

Advanced data formatting: You can perform programming-like operations on data: select some predetermined rules and process the data in sequence.

● Enable advanced data formatting.

By default, there is a preset rule: Rule0, which does not process the barcode in any way. You can click the "+" sign to create multiple rules.



Figure 2-12

● Rule triggering conditions

You can trigger the next action of this rule by specifying a string, a barcode data position, a length, or a barcode type.

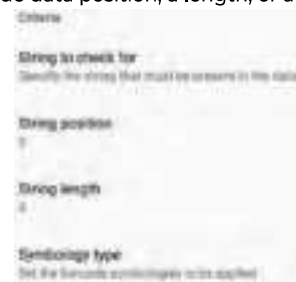


Figure 2-13

● Perform an action

Click the "+" sign to select the next action that this rule can perform. You can add multiple actions to meet some complex requirements.

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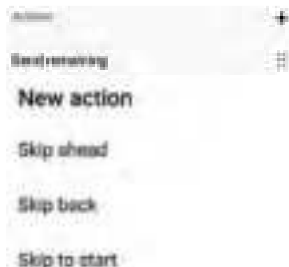


Figure 2-14

2.4 Data Output Mode Settings

2.4.1 Key Output

Key output is the default scanning output mode enabled by M-Scan. By default, when you scan a barcode, the barcode data will be output in the input box in a simulated keystroke manner.



Figure 2-15

You have three key output options:

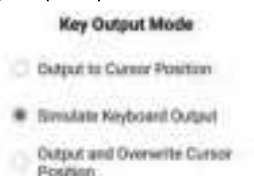


Figure 2-16

- **Output to Cursor Position:** After scanning the barcode, the data will be immediately displayed where the cursor is.
- **Simulate Keyboard Output:** The barcode data will be output in simulated keyboard input mode. (Default enabled)

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- **Output and Overwrite Cursor Position:** Replace the data at the cursor position with the barcode data.

2.4.2 Broadcast Output

Broadcast Output uses Android's broadcast mechanism to transmit barcode data to the user's APP. Default off.

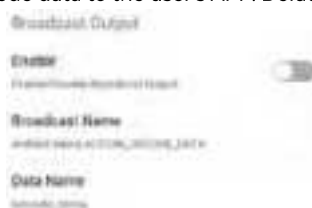


Figure 2-17

2.4.3 Clipboard Output

The barcode data scanned by the device will be saved in the clipboard. Default off.



Figure 2-18

2.5 New Configuration File

With M-Scan, you can create a profile and link it to your app. You can achieve:

- Create multiple profiles and associate different applications so that different applications can process the same scan data in different ways.
- Create a single profile and associate it with multiple applications to acquire and process scan data in the same way.

Note: A profile can be associated with one or more pages or apps, but a page or app can only be associated with one profile.

2.5.1 New Configuration File

1. Click the New Configuration File.

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Figure 2-19

2. Enter the name of the Profile in the pop-up input box and click OK.

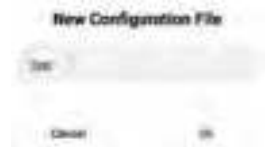


Figure 2-20

3. Finish creating the Test Configuration File.



Figure 2-21

2.5.2 Associated APP

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1. Select the Test Configuration File you created.



Figure 2-22

2. On the configuration page, click Associate App to start associating the app.



Figure 2-23

3. In the top-right corner, click Add. A list will appear containing all the apps installed on your device.



Figure 2-24

4. For example, you can associate a configuration file with OrcaScan. When you select the "*" symbol, all active pages in OrcaScan will be associated. You can also select a specific page to associate with.



Figure 2-25

2.6 Customer Services

M-Scan APP provides a customer service interface. Through this function, you can talk to MUNBYN technical support staff online to help you solve your problems.

- Click "Online Consultation" to chat with support staff online.



Figure 2-26

2.7 About

You can download the SDK file or update M-Scan from the M-Scan About page.

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Figure 2-27

3.0 Inventory Management Software

This device is compatible with a large number of inventory management software on the market. This section will briefly describe three inventory management software programs. You can download the following three inventory management applications from the Google Play Store.

Note: These inventory software offer limited free-use functionality and may have additional charges.

3.1 Odoo

Odoo is an open-source enterprise resource planning (ERP) and customer relationship management (CRM) system that provides a comprehensive suite of business applications including accounting, inventory management, sales, procurement, project management, and more.



Figure 3-1

3.2 OrcaScan

OrcaScan is a barcode scanning app that offers a variety of features including barcode creation, printing, and scanning, supports offline use, and can integrate with multiple systems such as Google Sheets, Excel, and Power BI. The application allows you to export the scanned barcode data in Excel format.

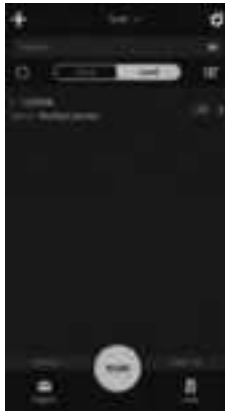


Figure 3-2

3.3 Zoho Inventory

Zoho Inventory is a cloud-based inventory management solution designed to help businesses track stock in real time, manage orders, and warehouse operations. It supports multi-channel selling, and barcode scanning, and integrates with popular e-commerce platforms and shipping carriers, enhancing efficiency and accuracy for retail, wholesale, and e-commerce businesses.



Figure 3-3

Tips: You can turn off the "Enter" terminator according to your needs. Please refer to section 2.3.2.

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4.0 Reset Options

Reset network settings and app preferences. You can also reset your device to its factory defaults.

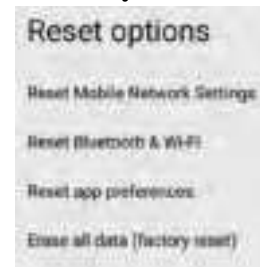


Figure 4-1

1. From Settings, tap **System** --> **Reset options**. The following options are available:

- **Reset Mobile Network Settings:** You can reset your mobile network settings.
- **Reset Bluetooth & Wi-Fi:** You can reset Wi-Fi, and Bluetooth settings with Reset network settings.
- **Reset app preferences:** You can reset all app preferences settings and will not lose any app data.
- **Erase all data (factory reset):** You can reset your device to factory defaults, erasing all data from your device.

Note: This action permanently erases ALL data from the device, including Google or other account settings, system and application data and settings, downloaded applications, as well as your music, photos, videos, and other files.

5.0 FAQ

1. Why can't the device be turned on or charged?

- Due to the impact of long-distance transportation, the battery may enter sleep mode. Please charge it for half an hour before turning it on.
- Please try to press and hold the power button for more than 20 seconds to force a restart.
- If the battery still cannot be turned on after charging for half an hour, please check whether there is a problem with the charging plug or charging cable. Please replace the charging plug/charging cable to

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charge. If you have a charging stand, please use the charging stand to perform a charging test.

- If the device has a removable battery and you have extra batteries, try replacing the batteries and try again.

2. Why does the scan light not appear after I press the device scan button?

- Refer to Section 2.1.1 to restore M-Scan to factory settings.
- Please try restarting your device.
- Please try to reset the device. Please refer to Chapter 4.0.
- If this does not work, please contact Technical Support.

3. How to use the battery correctly?

The battery is a lithium-ion battery. If it is out of power, please charge it immediately. Do not fully charge or deplete the battery for a long time. It is best to keep 50% of the power for storage. If you do not use the device for a long time, it is best to unplug the battery from the device.

4. Why is the light on when scanning but there is no data?

1. Refer to section 2.2 to check whether this barcode is enabled.
2. Please try to change the scan output mode to simulate keystrokes. Please refer to section 2.4.1.

5. Why is there a lack of numbers in the output when I scan successfully? (Characters)

Please refer to section 2.2 to enable the transmission check digit setting for this barcode type.

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MUNBYN provides a 24-month warranty and lifetime free service.

If you encounter any issues with the product, please contact the MUNBYN team to promptly receive troubleshooting tips or a replacement.

Email: support@munbyn.com (24*7 online support)

Website: www.munbyn.com (how-to videos, warranty details)

Skype: +1 628 229 3612

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FCC Warning

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 unintended operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has 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 noise 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/TV technician for help.

Specific Absorption Rate (SAR) Information:

This Android Barcode Scanner meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through peer-reviewed and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to ensure the safety of all persons regardless of age or health.

FCC RF Exposure Information and Statement

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device type: Android Barcode Scanner (CH44AS01) has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification for use at the ear is 0.431W/kg and when properly worn on the body is 0.711W/kg. The Hotspot SAR value is 0.711W/kg, the maximum transmission SAR value is 0.889W/kg on the head and 1.111W/kg on the body. This device was tested for typical body-worn operation with the back of the handset kept 10mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 10mm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

Body-worn Operation

This device was tested for typical body-worn operation. To comply with RF exposure requirements, a minimum separation distance of 10mm must be maintained between the user's body and the handset, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements.

and should be avoided. Use only the supplied or an approved antenna.

IC Warning

This device complies with Innovation, Science and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause unintended operation of the device.

RF Exposure Information and Statement

The SAR limit of USA is 1.6 W/kg averaged over one gram of tissue. Device type: Android Barcode Scanner (IC: 29332-AS01) has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification for use at the ear is 0.431W/kg and when properly worn on the body is 0.711W/kg. This device was tested for typical body-worn operation with the back of the handset kept 10mm from the body. To maintain compliance with IC RF exposure requirements, use accessories that maintain a 10mm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with IC RF exposure requirements, and should be avoided. Body-worn Operation

This device was tested for typical body-worn operation. To comply with RF exposure requirements, a minimum separation distance of 10mm must be maintained between the user's body and the handset, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.

Le présent appareil est conforme aux CNR d'Innovation Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF exposure Information et Déclaration

La limite SAR des États-Unis est de 1,6 W / kg en moyenne par gramme de tissu. Type d'appareil: Android Barcode Scanner (IC: 29332-AS01) a également été testé contre ces limites. La valeur SAR la plus élevée déclarée au vu de cette norme lors de la certification de produit pour une utilisation à l'oreille est 0,431W : kg et lorsqu'il est correctement porté sur le corps est 0,711W : kg. Ce dispositif a été testé pour les opérations typiques portées sur le corps avec le dos du téléphone gardé à 10mm du corps. Afin de maintenir la conformité aux exigences de la IC, évitez des accessoires qui maintiennent une distance de séparation 10mm entre le corps de l'utilisateur et le dos du téléphone. L'utilisation de pinces de ceinture, étuis et accessoires similaires ne doivent pas contenir de composants métalliques dans une assemblée. L'utilisation d'accessoires qui ne satisfont pas à ces exigences ne peuvent pas se conformer aux exigences de la IC, et devrait être évitée. Port sur le corps: Opération

Ce dispositif a été testé pour les opérations typiques portées sur le corps. Pour se conformer aux exigences d'exposition aux radiofréquences, une distance de séparation minimale de 10mm

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Ne placez pas votre main sur le corps de l'utilisateur et le contact, y compris l'antenne. Tous types de ceintures, étuis et autres accessoires similaires utilisés par ce dispositif ne doit pas contenir de composants métalliques. Accessoires qui ne répondent pas à ces exigences peut ne pas se conformer aux exigences d'exposition RF et doit être évité Body-port: Utilisez uniquement l'antenne fournie sur l'appareil.

RF warning for Portable device:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

5150-5250MHz for indoor use only

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