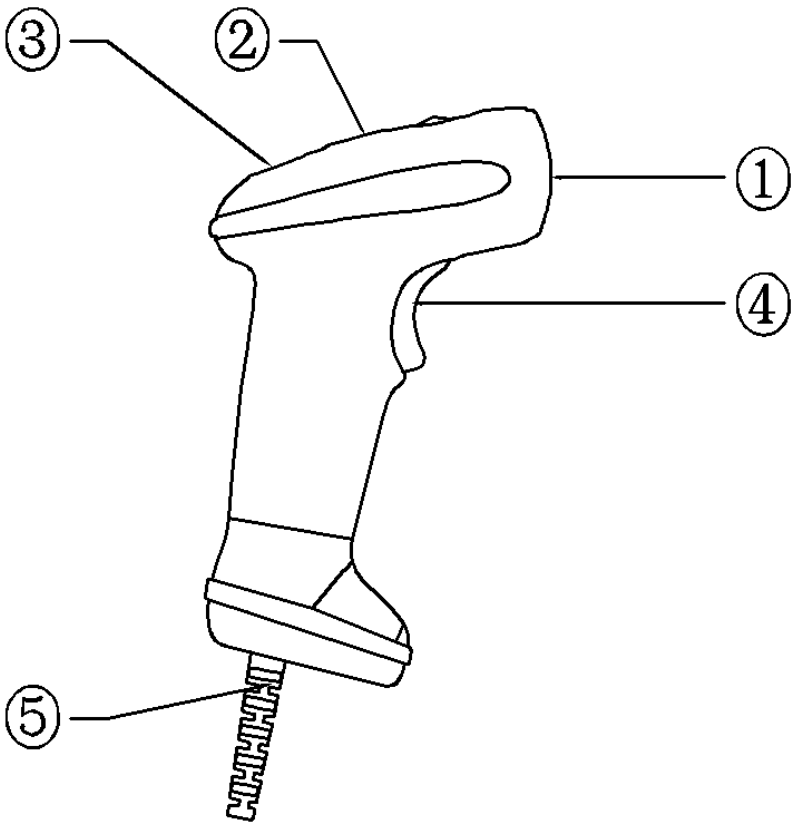
AR3000 2D Barcode Scanner

USER GUIDE



Please read this guide carefully before using the scanner and keep it for future reference.

Document Version: V1.0 | Model: AR3000

1. Safety and Handling

• Use the scanner only with the supplied or approved cable and power accessories.

• Do not look directly into the aiming or illumination light at close range.

• Keep the scan window clean. Use a soft, lint-free cloth; do not use abrasive cleaners.

• Do not disassemble the scanner. Unauthorized disassembly may affect reliability and warranty service.

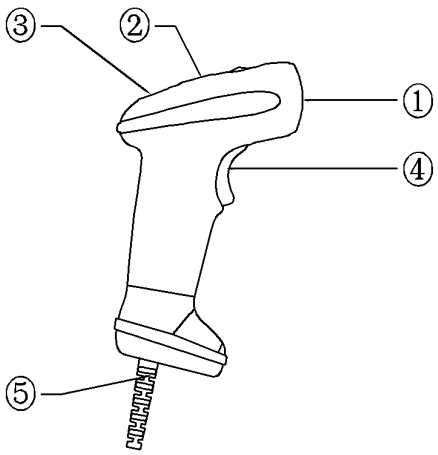
• Keep the device away from excessive moisture, corrosive chemicals, and severe mechanical impact.

2. Packing List

Item	Quantity	Remarks
AR3000 Barcode Scanner	1	
USB Cable	1	
User Guide	1	

Note: Actual package contents depend on the ordered configuration. USB is the standard interface; an RS-232 Serial cable is available as an option.

3. Product Appearance



1. Scan Window
2. Decode LED
3. Beeper Opening
4. Trigger Button
5. Cable Interface

4. Installation

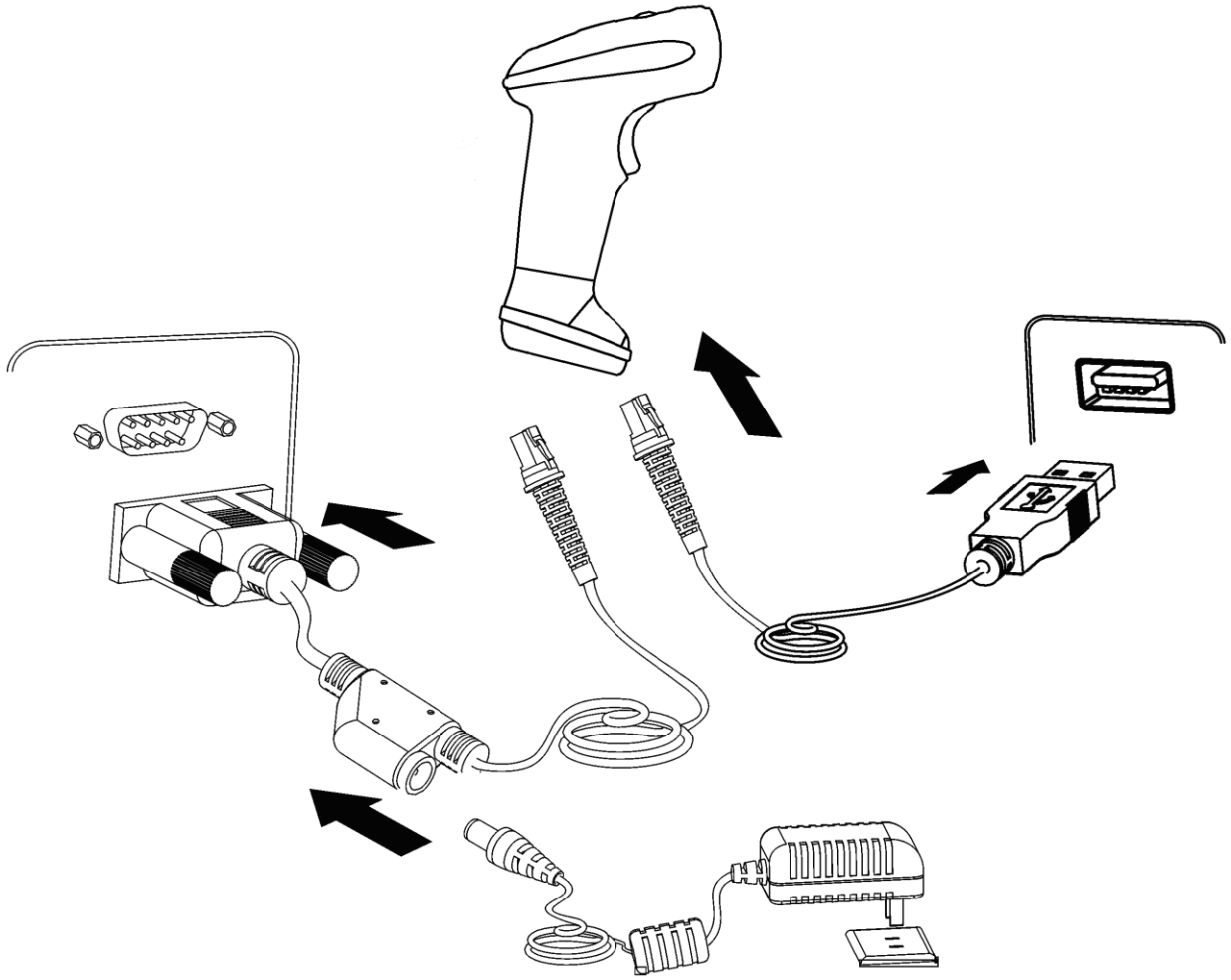
4.1 Connecting the Scanner

1. Turn off the host computer or terminal before connecting the scanner.

2. Insert the correct data cable firmly into the cable interface at the bottom of the scanner.

3. Connect the other end of the cable to the corresponding port on the host device.

4. Turn on the host device. The scanner can be used after the host recognizes the interface.



Note: USB is the standard connection; RS-232 Serial is optional. Depending on the selected communication mode, a driver may be required on the host system.

5. Scan Mode

5.1 Manual Trigger Mode

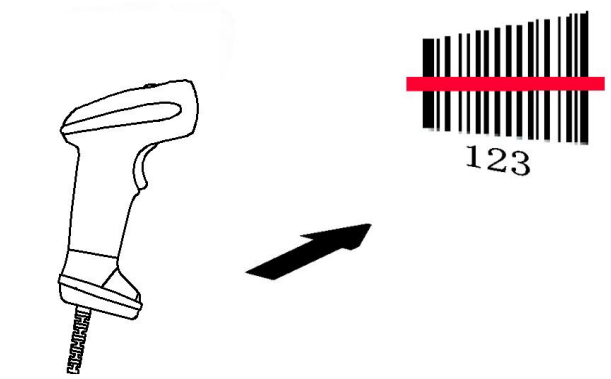
Press trigger button to scan the barcode. The red dot goes off after releasing the button or decoding successfully.

5.2 Presentation / Auto-Sense Mode

Move the barcode near the scan window to automatically read.

5.3 Recommended Scan Position

Aim the scan window at the barcode and keep the code within the effective field of view. Adjust the distance or angle if the barcode is not decoded immediately.



6. Test Barcodes

Use the following sample codes to confirm basic decoding after installation.

1D Test Barcode

87612345

2D Test QR Code

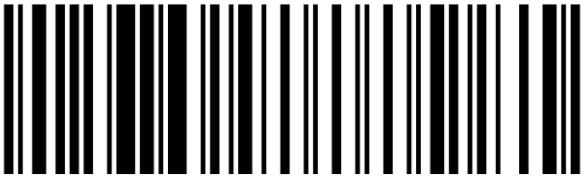
12345678

7. Configuration Barcodes

To change a setting, scan the corresponding configuration barcode. Settings take effect according to the scanner firmware configuration.

7.1 Restore Defaults

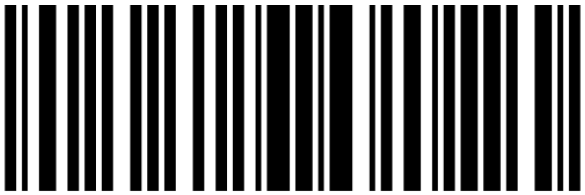
Restore Factory Defaults



7.2 Communication Interface

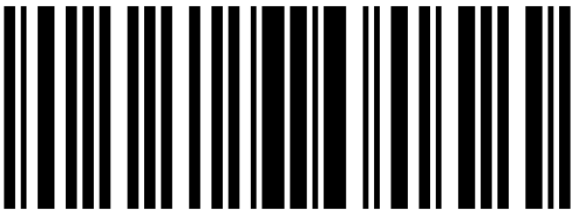
USB Virtual COM

USB CDC-ACM



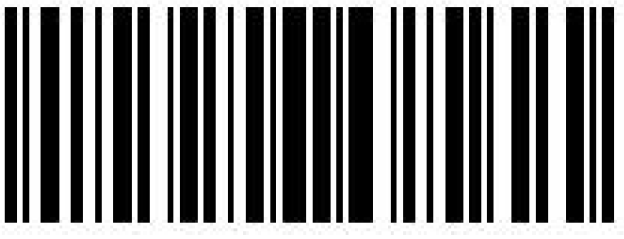
USB HID Keyboard

Keyboard emulation

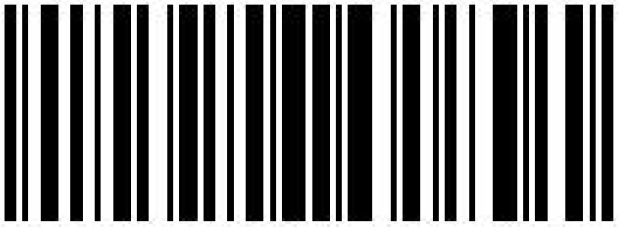


7.3 Trigger Mode

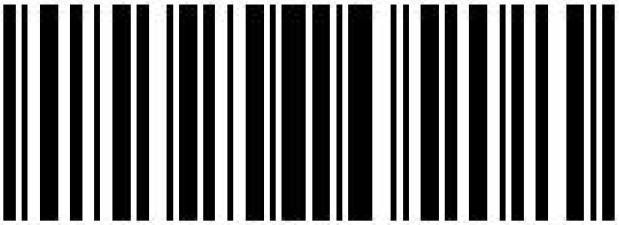
Continuous Reading



Automatic Induction Mode

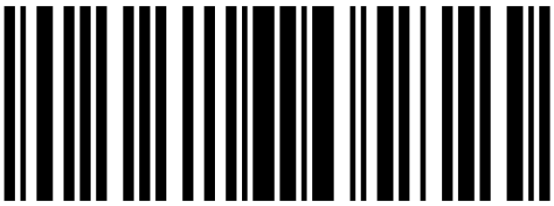


*** % & Level**

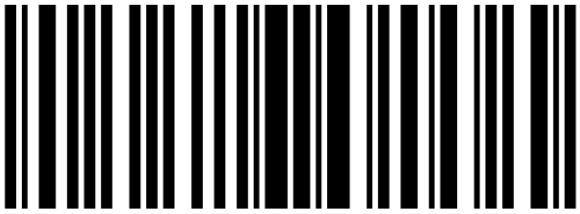


7.4 Illumination

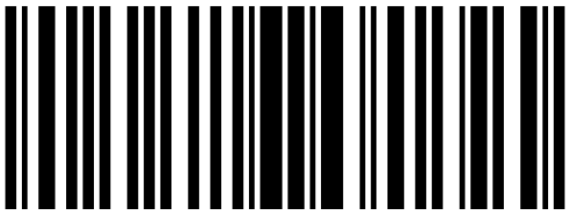
Lighting During Read [Default]



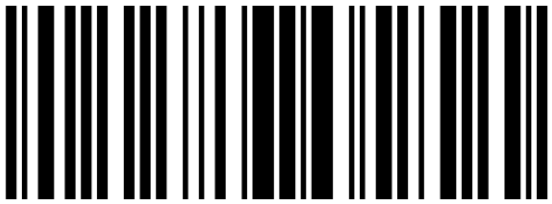
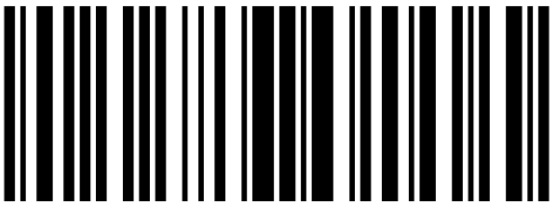
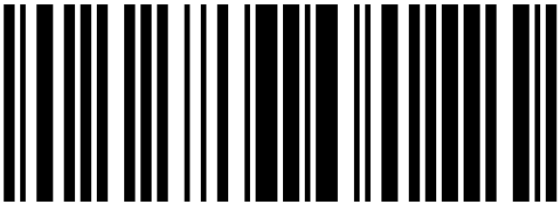
Always Off



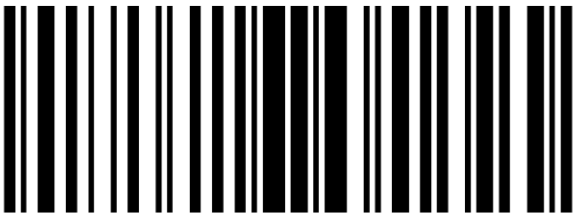
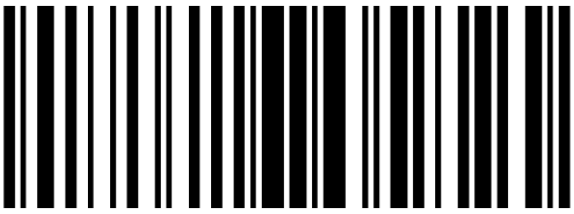
Always On



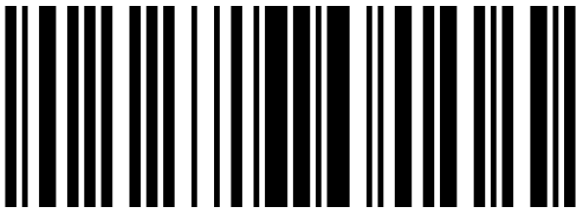
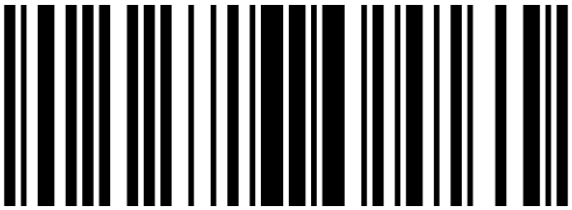
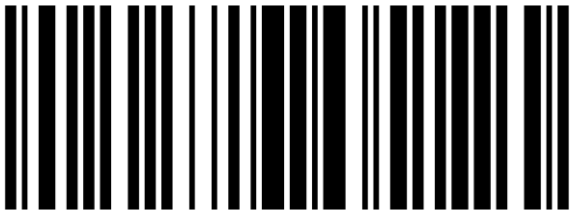
7.5 Aiming Light

Aiming During Read [Default]	
Always Off	
Always On	

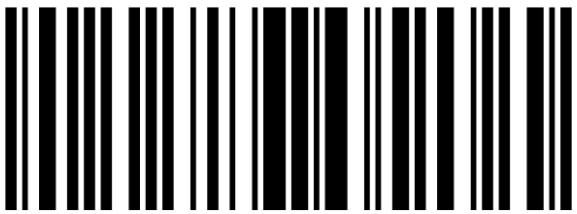
7.6 Good-Read Beeper

Enable Beeper [Default]	
Disable Beeper	

7.7 Suffix / Terminator

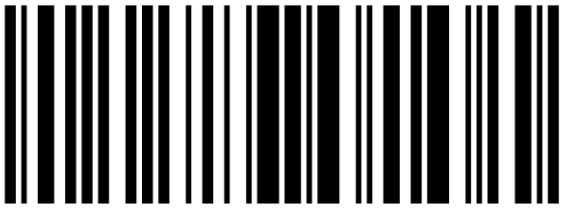
CR + LF	
TAB	
CR	
Disable Suffix **[Default]**	

7.8 Character Set Type

Initial / Raw	

GBK (GB2312) [Default]

Commonly used with Notepad / Excel in supported environments



Unicode

Commonly used with Word / WPS in supported environments



Note: Only parts of setting codes list in this guide, more refer to Software Development Manual.

8. Troubleshooting

Problem	Recommended Action
Incorrect scanner configuration	Restore default settings, then configure the required operating mode.
Illumination, aiming light, or beeper does not operate	Check the corresponding illumination, aiming, and beeper settings.
Scanner does not power on or operate	Check the cable connection and confirm that the host interface provides the correct power.
Barcode cannot be decoded	Confirm that the symbology is enabled and that the barcode quality, distance, and angle are suitable.
Barcode is decoded but no data reaches the host	Reconnect the cable and verify the selected communication interface.
Unexpected formatting in text or spreadsheet applications	Configure the required suffix / terminator.
Incorrect Chinese characters in USB HID Keyboard mode	Select the appropriate Unicode or GBK/GB2312 character-set option for the host application.

9. Basic AR3000 Technical Reference

Item	Specification
Image Sensor	CMOS image sensor, rolling shutter
Image Resolution	640 × 480 pixels (VGA)
Frame Rate	100 fps
Minimum Barcode Resolution	1D: 4 mil; 2D: 6 mil
Illumination	White LED
Aiming	Red LED Dot
Dimensions	130 × 90 × 185 mm (W × D × H)
Weight	342 g
Input Voltage	5.0 VDC ± 0.5 V
Ambient Light Immunity	Up to 100,000 lux

For complete performance, environmental, and compliance specifications, refer to the AR3000 Technical Datasheet.

10. Warranty and Service

Warranty service is subject to the sales agreement and applicable local law. The following conditions are normally excluded from free warranty service, while paid repair service may be available:

- Product is outside the applicable warranty period.
- Damage caused by abnormal voltage or unsuitable operating conditions.
- Unauthorized disassembly, modification, or repair.
- Damage caused by natural disasters or other force-majeure events.

For service support, provide the product model, serial number, purchase information, and a description of the issue to your supplier or authorized service contact.

Specifications and configuration options are subject to the supplied product firmware and order configuration.