

User Manual

Wired USB Desktop QR & Barcode Scanner

HD150

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Specifications:

- **Warranty:** 2 years
- **Resolution:** 1280 x 800 px
- **Sensor Type:** CMOS
- **Scanning method:** manual (on the button), automatically (after bringing the code closer)
- **Scan Acknowledgement:** Light and Sound Signal
- **Interface:** USB
- **Ingress protection:** IP54
- **Drop resistance:** 1.5 meters
- **Voltage:** DC5V
- **Working Current:** 400mA
- **Operating temperature:** -20°C - 60°C
- **Storage temperature:** -40°C - 70°C
- **Operating Humidity:** 0% - 95%
- **Readable 1D codes:** EAN-13, EAN-8, UPC-A, UPC-E, Code, 128, Code39, Codabar, UCC/EAN, 128, RSS, ITF, ITF-14, ITF6, Standard25, Matrix25, COOP25, Industrial 2/5, Plessey, MSI Plessey, Code11, Code93, Code49, Code16K etc.
- **Readable 2D codes:** PDF417, MicroPDF417, DataMatrix, Maxicode, QRCode, MicroQR, Aztec, Hanxin etc.
- **Product size:** 4.15 × 4.95 × 2.43 cm
- **Package dimensions:** 16 x 5.5 x 13 cm
- **Product weight:** 75 g
- **Weight with packaging:** 100 g

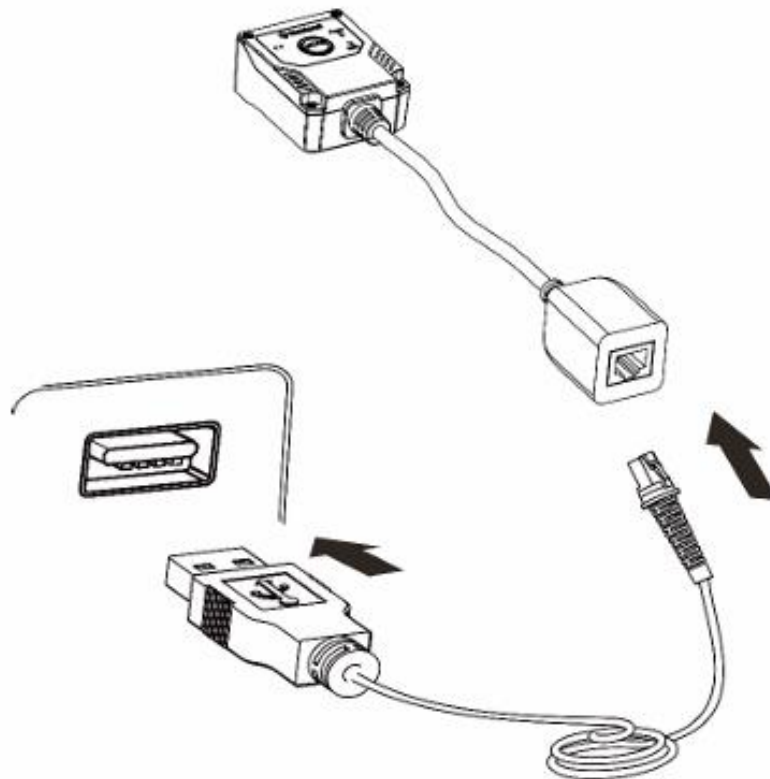
Set contents:

- Desktop QR & Barcode Scanner
- USB cable

Advantages:

- Lightning-fast capture of leading 1D and 2D barcodes, including QR, DataMatrix
- Effortlessly scan barcodes from LCD screens and mobile device displays
- Possibility of automatic and manual scanning
- Compact shape for built-in reader

Connecting the scanner



Connect the scanner to the host device using a USB cable with RJ45 and USB connectors:

1. Plug the RJ45 connector into the slot on the scanner.
2. Plug the USB connector into the USB port of the host device.

Maintenance

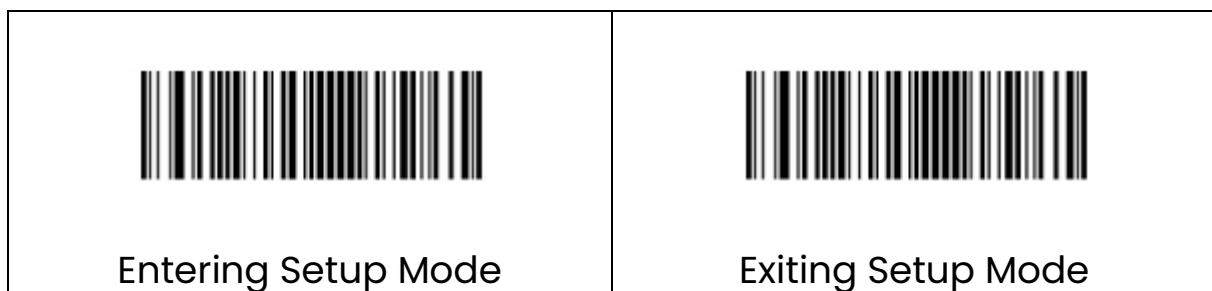
- Keep the scanner window clean
- Be careful not to scratch the scan window
- Use a soft brush to remove stains from the scanner window
- To clean the window, use a soft cloth, such as a glasses cleaning cloth
- Do not spray any liquid on the scanner window

- Do not use any detergents to clean other parts of the appliance, except water

Note: The warranty does NOT cover damage caused by improper care and maintenance.

Basic control codes

Each time you want to configure the reader, you need to scan the Go to Setup Mode code, then read the barcode for the setting, and finally read the Exit Setup Mode code.



Factory reset

Scanning the barcode below may restore the scanner to factory default settings. You may need to restore all parameters to factory default settings when:

- The scanner is incorrectly configured and does not decode barcodes.
- you don't remember the previous configuration and want to avoid its effects



Restore to factory settings

Default custom settings

Scanning the **Restore All Custom Settings** barcode allows you to reset all parameters to custom defaults. Scanning the **Save as Custom Defaults** barcode allows you to set the current settings as custom defaults. Default custom settings are stored in the scanner's memory.



Save as custom defaults



Restore all default settings

Scanner Backlight Settings

Several backlight options are available to improve lighting conditions with each scan:

- **Normal:** Backlight LEDs activate when scanning codes
- **Always on:** Backlight LEDs stay on all the time when the scanner is turned on

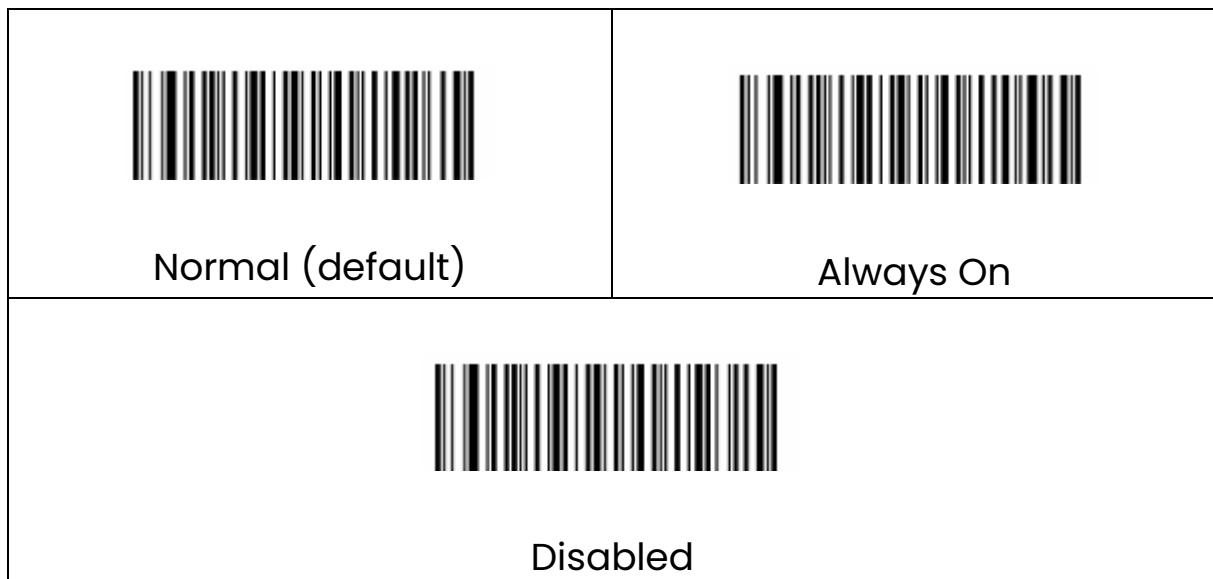
- **Off:** Backlight LEDs are off all the time
- **Fade:** Backlight LEDs glow dimly in standby mode and gradually increase in brightness when scanning codes

 <p>Normal (default)</p>	 <p>Always On</p>
 <p>Disabled</p>	 <p>Fade</p>

Crosshair settings

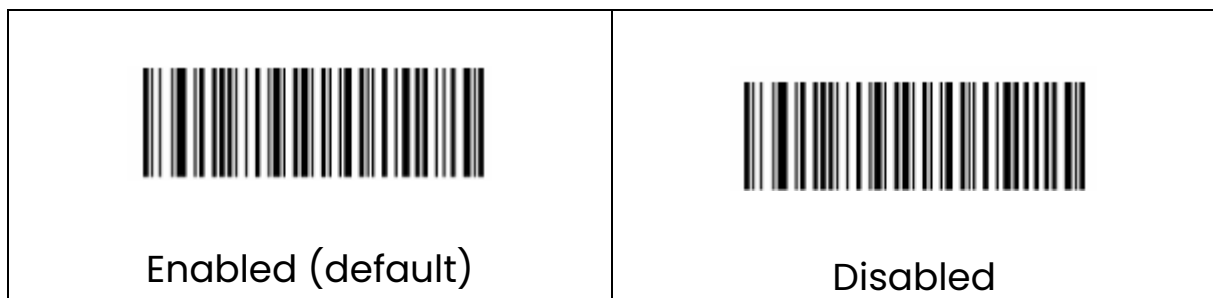
When scanning, the reader displays a crosshair that allows the target barcode to be positioned in the field of view for easy decoding. You can choose from the following aiming modes:

- **Normal:** The scanner displays a crosshair only when scanning a barcode.
- **Always on:** the viewfinder is constantly on when the scanner is started
- **Off:** Crosshair is off








Light signal settings after reading

The green barcode reading LED can be programmed to be on or off.



Setting the duration of the light signal

It is possible to set the length of time for which the LED should remain on after the code has been read correctly. The parameter is programmable from 1ms to 2500ms.

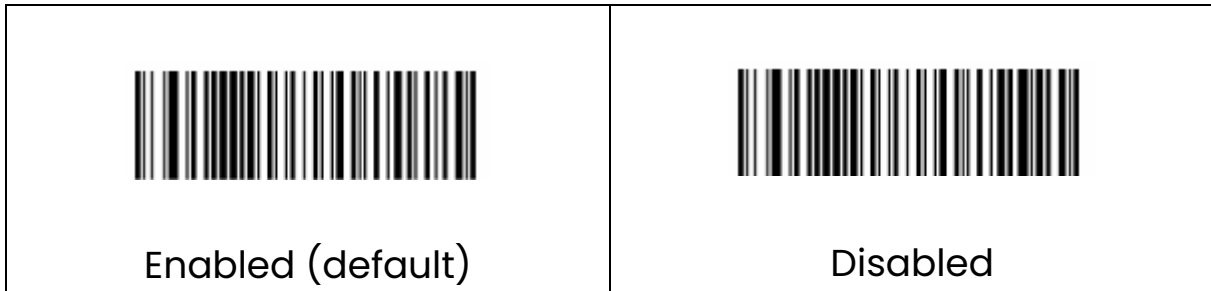
 <p>Short 20ms (default)</p>	 <p>120 ms average</p>
 <p>Long 220ms</p>	 <p>Extended 320 ms</p>
 <p>Custom 1 – 2,500 ms</p>	

Example of a custom LED duration setting for 800 ms:

1. Scan the **Entry into Setup Mode** barcode.
2. Scan the **Custom** barcode.
3. Scan the numeric barcodes "8", "0" and "0" from the "Digital Barcodes" attachment.
4. Scan the **Configuration Record** barcode from the attachment "Barcodes Save/Cancel".
5. Scan the "Exit Setup Mode" barcode.

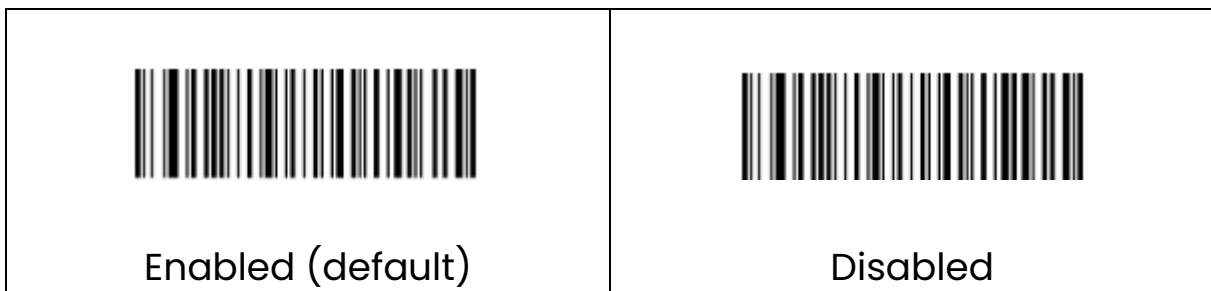
Beep settings when the scanner is started

The scanner can be programmed to beep or not when turned on.



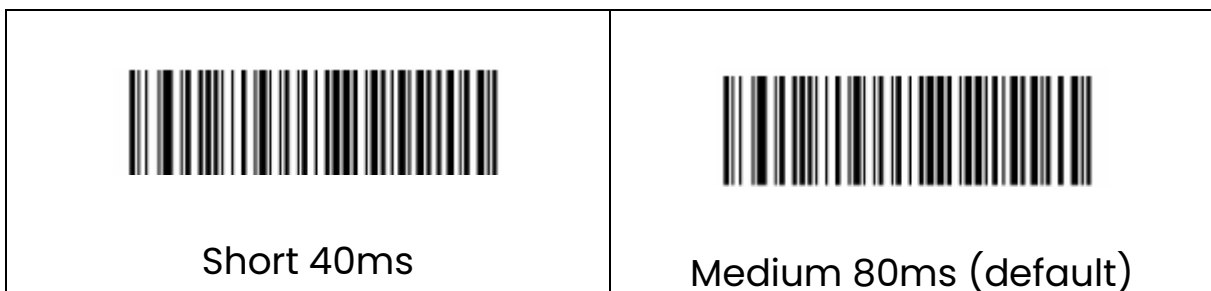
Beep settings after a successful read


The scanner can be programmed to emit a beep after a successful read, or to turn off the beep.



Setting the beep duration after a successful read

This parameter sets the length of the beep emitted by the scanner when it is read correctly. It offers a range from 1ms to 300ms.



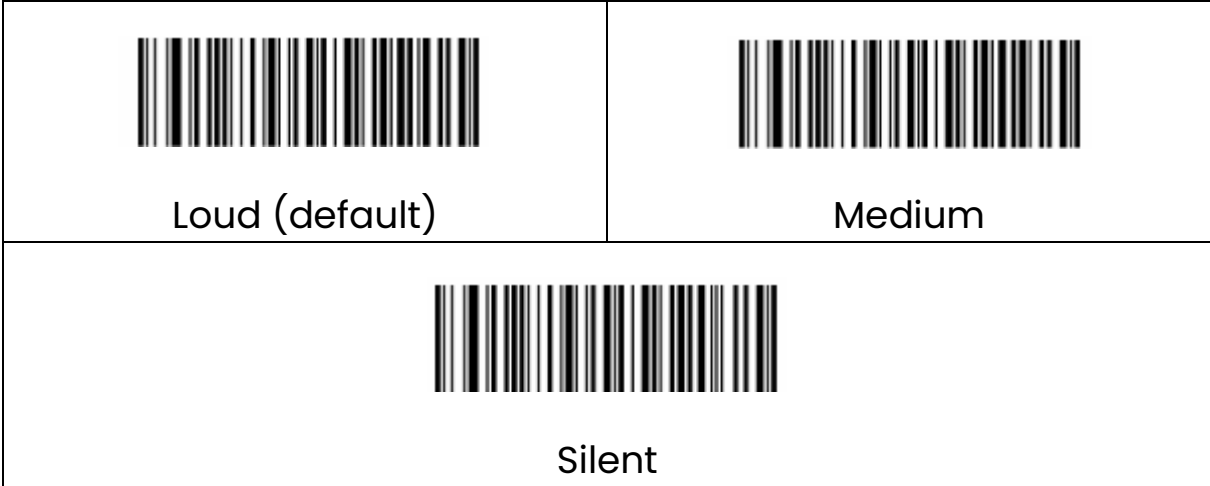
 <p>Long 120ms</p>	 <p>Custom</p>
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Beep frequency setting

This parameter can be programmed in 1 Hz increments from 20 Hz to 20,000 Hz.

 <p>Ultra-low 800Hz</p>	 <p>Low 1600Hz</p>
 <p>Average 2730Hz (default)</p>	 <p>High 42000Hz</p>
 <p>Custom 20 – 20,000Hz</p>	

Beep volume settings



Barcode Scanning Mode Settings

- **Manual Mode:** Pressing the trigger activates the decoding session. The decode session continues until the barcode is decoded or the trigger is released.
- **Auto mode:** The scanner activates when a barcode is detected and scans it without the need to press the scan button. In this mode, it is also possible to read the code when the trigger is pressed.
- **Continuous mode:** The scanner automatically starts one decoding session after another. To suspend/resume scanning, simply press the trigger.





Continuous mode

Scan sensitivity setting

Sensitivity determines how responsive the scanner is to changes in ambient light. The higher the sensitivity, the less lighting is needed to start the scanner. You can choose the right degree of sensitivity that suits your environment. This feature is only available in automatic mode.



Low sensitivity



Medium sensitivity (default)



High sensitivity

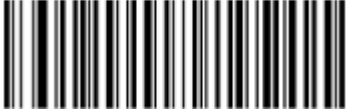
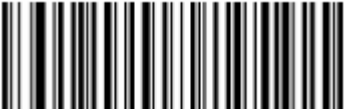



Increased sensitivity





Custom sensitivity (range 1-20)

Letter conversion settings

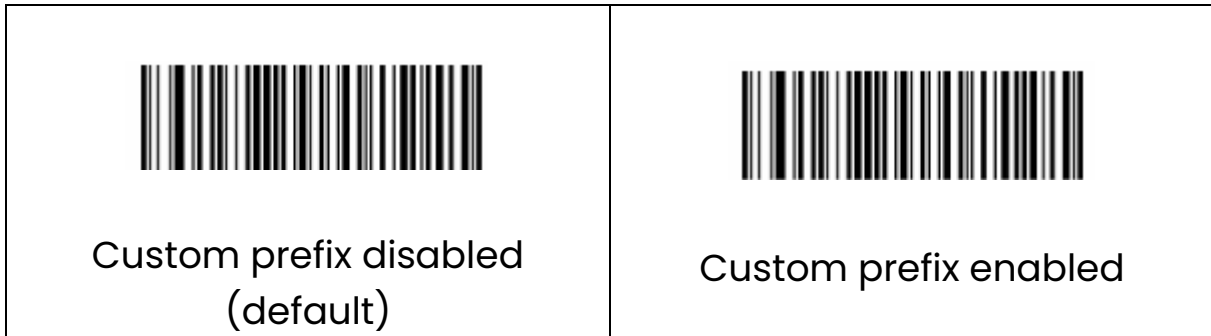
 No Conversion (Default)	 Conversion to uppercase
 Conversion to lowercase	

Prefix and Suffix Setting

 Prefix/Suffix Disabled (Default)	 Prefix/ Suffix On
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Custom prefix setting

If a custom prefix is enabled, you can append a user-defined prefix to the barcode that cannot exceed 10 characters. For example, if the custom prefix is "AB" and the barcode data is "123", we will get "AB123".



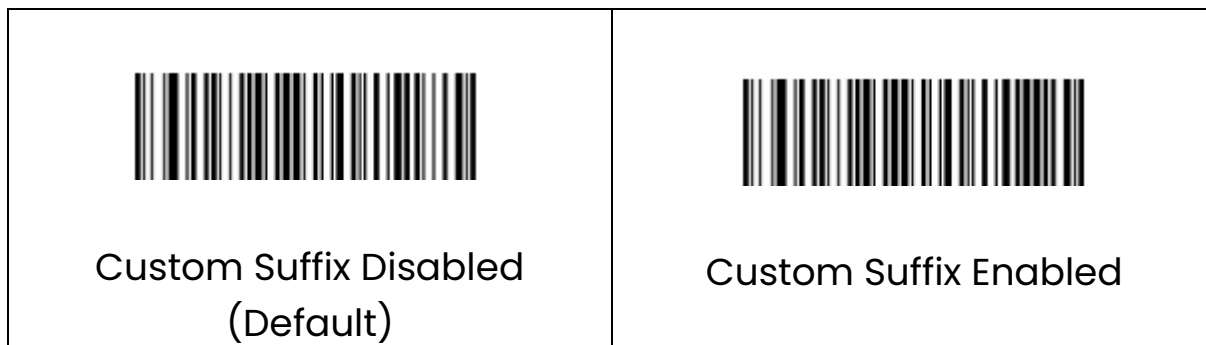
To set a custom prefix, you need to scan the **Custom Prefix Setting barcode**, followed by the numeric bar codes that correspond to the hexadecimal value of the desired prefix. After completing the above steps, you need to scan the **Record Settings barcode**.

Note: A custom prefix cannot exceed 10 characters.



Set a custom suffix

If a custom suffix is enabled, you can include a user-defined suffix in your code that cannot exceed 10 characters. For example, if the custom suffix is "AB" and the barcode data is "123", we will get "123AB".



To set a custom suffix, scan the barcode setting the **custom suffix**, then the numeric barcodes corresponding to the hexadecimal value of the desired suffix, and finally read the Save Settings barcode.

Note: A custom suffix cannot exceed 10 characters.

Appendix 1. Numeric barcodes





@DIGIT8

8



@DIGIT9

9



@DIGITA

A



@DIGITB

B



@DIGITC

C



@DIGITD

D



@DIGITE



E



@DIGITF

F

Appendix 2. Save/Cancel

 <p>Saving settings</p>	 <p>Canceling settings</p>
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